

D-7120

Sub. Code

11A/13711

DISTANCE EDUCATION

Common for B.A./B.Sc./B.B.A./B.B.A. (Banking), B.C.A./M.B.A.
(5 Year integrated) DEGREE EXAMINATION,
DECEMBER 2022.

First Semester

Part I – TAMIL PAPER – I

(CBCS 2018 – 2019 Academic Year Onwards/2021 Calendar
Year onwards)

Time : Three hours

Maximum : 75 marks

பகுதி அ — (10 × 2 = 20 மதிப்பெண்கள்)

அனைத்து வினாக்களுக்கும் விடையளிக்க.

1. ஸ்ரீ கிருஷ்ண கானம் யாரால் பாடப்பட்டது?
2. பாரதியாரின் இயற்பெயர் என்ன?
3. தீராத விளையாட்டுப் பிள்ளை யார்?
4. பெ.தூரன் 'தளிர்க் கீற்று' என்று எதனைக் குறிப்பிடுகிறார்?
5. வல்லிக் கண்ணன் பிறந்த ஊர் எது?
6. மீரா. வின் படைப்புகள் இரண்டினைக் கூறுக.
7. கவிஞர் ஞானக்குத்தனுக்கு மோசிகீரனார் மேல் அன்பு தோன்றக் காரணமென்ன?
8. சிலப்பதிகாரக் காண்டங்கள் எத்தனை? அவை யாவை?

9. “தேரா மன்னா செப்பு துடையேன்” - யார் கூற்று? யாரைக் கூறியது?

10. சீறாப்புராணத்தை இயற்றியவர் யார்?

பகுதி ஆ — ($5 \times 5 = 25$ மதிப்பெண்கள்)

அனைத்து வினாக்களுக்கும் விடையளிக்க.

11. (அ) “குருவாயூருக்கு வாருங்கள்” பாடலின் கருத்துக்களை விளக்குக.

(அல்லது)

(ஆ) செய்யும் தொழிலின் மேன்மையைப் பட்டுக்கோட்டையார் வழி நின்று விளக்குக.

12. (அ) பாரத மாதாவின் பழம் பெருமைகளை விளக்குக.

(அல்லது)

(ஆ) ‘உலகப்பன் பாட்டு’ வழிப் பாரதிதாசனின் பொதுவுடைமைக் கருத்துக்களை விவரி.

13. (அ) ‘நிலாப்பிஞ்சு’ கவிதையில் பெ.தூரனின் இயற்கை வருணனையை விளக்குக.

(அல்லது)

(ஆ) வெறும் புகழால் என்ன பயன் என்பதை வல்லிக்கண்ணன் கவிதை வழி விளக்குக.

14. (அ) ‘கண்ணும் எழுதேம்’ கவிதையில் அப்துல் ரகுமானின் கவிச்சிறப்பை ஆராய்க.

(அல்லது)

(ஆ) கண்ணகியின் வரவை வாயிலோன் உரைத்த திறம் குறித்து எழுதுக.

15. (அ) தயரதன் வினாவும் மன்னர்கள் மறுமொழியும் குறித்து விளக்குக.

(அல்லது)

(ஆ) வீரமாமுனிவரின் தமிழிலக்கியத் தாக்கத்தைத் தேம்பாவணி வழி விளக்குக.

பகுதி இ — ($3 \times 10 = 30$ மதிப்பெண்கள்)

எவையேனும் மூன்றனுக்கு விடையளிக்க.

16. கண்ணனைக் குழந்தையாகப் பாவித்த கண்ணதாசனின் பாடற்கருத்துக்களைத் தொகுத்து எழுதுக.

17. நாமக்கல் கவிஞரின் நோயற்ற வாழ்வு குறித்துக் கட்டுரை வரைக.

18. பாரதிதாசனின் உலகப்பன் பாட்டு - விளக்கும் சமத்துவ சமுதாயத்தைக் கட்டுரைக்க.

19. வழக்குரை காதை கூறும் செய்திகளைத் தொகுத்து எழுதுக.

20. ஈத்தங்குலை வரவழைத்த படலக் கருத்துக்களை விளக்கி எழுதுக.

D-7121

Sub. Code

11B

DISTANCE EDUCATION

**COMMON FOR B.A./B.Sc./B.B.A./B.B.A. (Banking).
B.C.A./M.B.A.(5 Years Integrated) DEGREE
EXAMINATION, DECEMBER 2022.**

First Semester

English

Part I – COMMUNICATION SKILLS – I

(CBCS 2018-19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions

1. What are the components of communication?
2. Define rhetorical communication.
3. How does intonation affect the meaning?
4. How does stress and intonation improve spoken communication?
5. What is the accentual function of intonation?
6. What is topic sentence of a paragraph?
7. What are the steps to be followed while drafting the matter?

8. Why is eye contact important in non-verbal communication?
9. What is dynamic posture and static posture?
10. Mention some important techniques for presentation skills.

PART B — (5 × 5 = 25 marks)

Answer ALL questions. Choosing either (a) or (b).

11. (a) Write a short note on Intra-personal communication and Inter-personal communication.

Or

- (b) How is communication a dynamic process? Explain.

12. (a) What are the advantages and disadvantages of oral communication?

Or

- (b) Are tone and intonation important for communication? Discuss.

13. (a) Who is considered as 'effective speaker'? What are the points to be kept in mind while evaluating the ability of the speaker?

Or

- (b) Write a paragraph on "Impact of Covid-19 on world economy".

14. (a) Write about some facial expressions.

Or

- (b) Write an application for the post of Peon in a private bank.

15. (a) Write a report on 'Pongal Celebration' at your college.

Or

- (b) Which is the very important aspect of body language?

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions

16. What are the types of communication? Explain.
17. Give detailed distinction between informal oral communication and formal oral communication.
18. What are the four types of essays? Explain.
19. What are the types of reports? Explain.
20. How do you write the purpose and objective of a meeting?
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D-7122

Sub. Code

12/13712

DISTANCE EDUCATION
COMMON FOR B.A./B.Sc./B.B.A./B.B.A. (Banking)/
B.C.A./M.B.A. (5 Year Integrated) DEGREE
EXAMINATION, DECEMBER 2022.

First Semester

Part II – ENGLISH PAPER – I

(CBCS 2018-19 Academic Year Onwards/
2021 Calendar Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions

1. Write about the power and beauty of the element, “Water”.
2. How does the end of Mr. Packletide’s big-game shooting?
3. List out Carl Sagan’s notions of the emergence of human ancestors.
4. How is the picture of Gandhi portrayed in *A Hero on Probation*?
5. Write a short note on the deficiency diseases.
6. Define Gerunds. Give examples.
7. What are called prepositions?
8. Fill in the blanks with suitable auxiliary verbs:
(a) _____ I speak to Principal, please?
(b) _____ I use your pen, please?
9. Fill in the blanks with appropriate articles:
(a) John eats _____ fruits in your garden.
(b) There were many flowers in the park. One flower was _____ Rose.
10. Write a short note on formal letter.

PART B — (5 × 5 = 25 marks)

Answer ALL questions. Choosing either (a) or (b).

11. (a) Write briefly about the conservation and utilization of water which is fundamental for human welfare.

Or

- (b) Bring out the reasons why Gardiner considers letter writing as a art which is lost.

12. (a) Write a short note on body building.

Or

- (b) Consider '*A Dead of Bravery*' as a tale of courage of an ordinary villager demonstrated in rescuing his friend from the jaws of death.

13. (a) Comment on the title *A Hero on Probation*.

Or

- (b) Give an account of *Our Civilization*

14. (a) Fill in the blanks with suitable preposition:

I do not want _____ feed a typewriter
_____ streets _____ paper
_____ lose the use _____ my legs
_____ travelling always _____ car, or
_____ be summoned, _____ or
_____ warning.

Or

- (b) Fill in the blanks with suitable articles:

_____ unusual occurrence in _____ Chambal
Valley of _____ Madhya Pradesh has baffled
_____ government officials. _____
Elephant from _____ reserve forest that had
strayed out walked into _____ old and
abandoned railway station building _____
week ago. Ever since then it has refused to move
out. All efforts by _____ forest officials to persuade
_____ tusker to go back into _____
forest.

15. (a) Write a letter to your friend about your recent tour to Ooty.

Or

- (b) Change the voice
- (i) The company requires staff to watch a safety video every year.
 - (ii) The teacher always answers the students' questions.
 - (iii) A forest fire destroyed the whole suburb.
 - (iv) The children have broken the window glass.
 - (v) Rita will be invited by Seetha.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions

16. Write a brief note on the character of the cat by Katharine M. Wilson?
17. How does A.G. Gardiner argue for the preservation of the art of letter writing? Elaborate.
18. Write an essay on the dangers of drug abuse.
19. Turn the following sentences into indirect speech.
- (a) The poor man exclaimed, 'Will none of you help me?'
 - (b) Azar said to the magician, 'What have I done to deserve so severe a punishment?'
 - (c) 'Have you anything to say on behalf of the accused?' said the judge finally.
 - (d) 'The king was impressed with the magician and asked, 'What can I do for you?'
 - (e) She asked, 'What is it that makes you stronger and braver than other men?'
20. Read the following and write a summary of it. Suggest a title.

There are two problems that cause great worry to our educationists, the problem of religious and moral instruction in a land of many faiths, and the problem arising out of a large variety of languages. Taking up the education of children, we see that they should be trained

to love one another, to be kind and helpful to all, to be tender to the lower animals, and observe and think aright. The task of teaching them how to read and write and to count and calculate is important, but it should not make us lose sight of the primary aim of moulding personality in the right way. For this it is necessary to call into aid culture, tradition and religion. But in our country we have, in the same school, to look after boys and girls born in different faiths and belonging to families that live diverse ways of life and follow forms of worship associated with different denominations of religion. It will not do to tread the easy path of evading the difficulty by attending solely to physical culture and intellectual education. We have to evolve a suitable technique and method for servicing the spiritual needs as school children practise different faiths. We would thereby promote an atmosphere of mutual respect, a fuller understanding and helpful co-operation among the different communities in our society. Again, we must remain as one people, and we have therefore to give basic training in our schools to speak and understand more languages than one and to appreciate and respect the different religions prevailing in India. It is not right for us in India to be dissuaded from this by considerations as to overtaxing the young mind. What is necessary must be done. And it is not in fact too great a burden.

D-7231

Sub. Code

13013

DISTANCE EDUCATION

B.Sc. DEGREE EXAMINATION, DECEMBER 2022.

First Semester

Computer Science

PROGRAMMING IN C

(CBCS 2018 – 19 Academic Year onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Give out the basic structure of C Program?
2. Mention the use command line arguments?
3. Why do we avoid '*goto*' statement ? Give reason.
4. Can we use '*break*' statement inside loop? Why?
5. Define string. Give examples.
6. Define function prototype? Give out its syntax.
7. Compare pointer with arrays.
8. Distinguish between structure with union.
9. List different type of file organization.
10. What are compiler control directives?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Write a C program to find the factorial of given number N.

Or

- (b) What are the derived data type in C?

12. (a) Briefly explain about 'else-if ladder with example.

Or

- (b) Differentiate between 'while' and 'do-while' statements.

13. (a) Write a function in C to reverse given string and check for palindrome or not.

Or

- (b) How will you define and call parameterised function? Explain.

14. (a) Define structure. Write a C program to display date of birth using structure.

Or

- (b) How will you define array of pointers? Explain.

15. (a) Write short note on: Error Handling during I/O Operations.

Or

- (b) Write short note on: Pointers and character string.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Briefly explain about formatted input and output statements with examples.
 17. Write a C program to sort n given numbers in descending order using 'for' loop.
 18. Discuss in detail about how dynamic memory allocation is performed using `malloc()`, `calloc()`, `realloc()` and `free()` functions.
 19. Write a C program to illustrate array of structure.
 20. Explain in detail about 'for' loop with suitable example.
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D-7123

Sub. Code

21A

DISTANCE EDUCATION

Common for B.A./B.Sc./B.B.A./B.B.A. (Banking)/B.C.A./M.B.A.
(5 Year integrated) DEGREE EXAMINATION,
DECEMBER 2022.

Second Semester

Part I – TAMIL PAPER – II

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

பகுதி அ — (10 × 2 = 20 மதிப்பெண்கள்)

அனைத்து வினாக்களுக்கும் விடையளிக்க.

1. தேம்பாவணி - ஆசிரியர் குறிப்புத் தருக.
2. நீலபத்மநாபன் எழுதிய 'தாய்' என்னும் கதையின் மையப் பாத்திரம் யார்?
3. உழிஞைத்திணை - குறிப்பு வரைக.
4. சார்பெழுத்துகளின் வகைகளைச் சுட்டுக.
5. அன்மொழித்தொகை - விளக்கம் தருக.
6. 'ஆறில் ஒரு பங்கு' என்னும் சிறுகதையை எழுதியவர்?
7. ஓரங்க நாடகம் - குறிப்பு வரைக.
8. இந்தியாவின் முதல் வானொலி நிலையம் எங்கு அமைக்கப்பட்டது?

9. பெரியபுராணத்தின் காப்பிய நாயகன் யார்?
10. பெண்களின் பாதுகாப்பிற்காகத் தமிழகக் காவல்துறை உருவாக்கியுள்ள 'செயலி' யாது?

பகுதி ஆ — ($5 \times 5 = 25$ மதிப்பெண்கள்)

பின்வரும் வினாக்களுக்கு ஒரு பக்க அளவில் விடை தருக.

11. (அ) சாந்தி உள்ளம் உருகிப் போற்றி நின்றதை வீரமாமுனிவர் எங்ஙனம் விவரிக்கின்றார்?

(அல்லது)

(ஆ) இறைவன் பொறை, மிடி, தாழ்வு கொண்டதன் காரணங்களைத் தேம்பாவணி வழி விளக்குக.

12. (அ) நீலபத்மநாபனின் 'சாளரத்தின் ஊடே' சிறுகதைச் சுருக்கத்தை எழுதுக.

(அல்லது)

(ஆ) தடாகை வதையால் இராமன் பெற்ற பயன்கள் யாவை?

13. (அ) ஆகுபெயர் வகைகளை எடுத்துக்காட்டுகளுடன் விவரிக்க.

(அல்லது)

(ஆ) மொழிமுதல் எழுத்துக்களைச் சான்றுகளுடன் விளக்கி எழுதுக.

14. (அ) மகாகவி பாரதியாரின் தேசப்பற்றைப் பாராட்டியுரைக்க.

(அல்லது)

(ஆ) தமிழ்ச் சிறுகதை வரலாற்றை நும் பாடப்பகுதியால் சுருக்கி வரைக.

15. (அ) குணங்குடி மஸ்தான் படைப்புகளின் சிறப்புகளைத் தருக.

(அல்லது)

(ஆ) சமூக வளர்ச்சியில் வானொலியின் பங்கு குறித்து விளக்கிடுக.

பகுதி இ — ($3 \times 10 = 30$ மதிப்பெண்கள்)

பின்வரும் வினாக்களில் மூன்றனுக்குக் கட்டுரை வடிவில் விடை தருக.

16. சாந்தி உள்ளம் மகிழ்ந்து குழந்தை ஏசுவைப் போற்றுமாற்றை விவரிக்க.
17. நீலபத்மநாபனின், 'விமோசன்' கதை உணர்த்தும் பெண்கள் நிலையைக் கட்டுரைக்க.
18. ஒற்றெழுத்து மிகுதல் மிகாமைக்கான வரையறைகளை விளக்கி வரைக.
19. கம்பராமாயணத்தில் காணப்படும் போர் குறித்த செய்திகளைத் தொகுத்துரைக்க.
20. மக்கள் வாழ்வியல் பயன்பாட்டில் இணையத்தின் பங்கு குறித்து விவரித்து எழுதுக.

D-7124

Sub. Code

21B

DISTANCE EDUCATION

Common for B.A. / B.Sc. / B.B.A. / B.B.A. (Banking) /
B.C.A. / M.B.A. (5 Years Integrated)
DEGREE EXAMINATION, DECEMBER 2022.

Second Semester

Part I – COMMUNICATION SKILLS - II

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What are the basic elements of communication?
2. Explain the process of encoding.
3. What are the ways to improve one's pronunciation?
4. Explain front vowels.
5. Define plosive sounds with examples.
6. What are the sub-skills of listening?
7. What is meant by informational mode of conversation?
8. What is an opening statement in a resume?
9. Explain problem letters with illustrations.
10. What is the importance of interview skills?

PART B — (5 × 5 = 25 marks)

Answer ALL questions choosing either (a) or (b).

11. (a) Write a note on the significance of communication skills.

Or

- (b) Discuss the different types of codes of communication skills.

12. (a) What are the ways to improve fluency of speaking English.

Or

- (b) Write a note on diphthongs.

13. (a) Elaborate the barriers of listening skills.

Or

- (b) Enumerate the significance of soft skills.

14. (a) Write a paragraph on the topic "COVID 19".

Or

- (b) Explain the structure of an interview.

15. (a) Discuss the guidelines that are to be followed in writing business letters.

Or

- (b) Comment on the role played by the Chief-Editor of a leading newspaper.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Write an essay on the stimulus and response adopted while communicating.
 17. Elaborate on the pronunciation etiquettes in communication.
 18. Discuss the different modes of conversations.
 19. You are building a house. Place an order for supplying electric fittings with a firm in Hyderabad.
 20. Write a resume for the post of a sub-editor in a sports magazine.
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D-7125

Sub. Code

22/13722

DISTANCE EDUCATION

**COMMON FOR B.A./B.Sc./ B.B.A./B.B.A. (Banking)/
B.C.A./M.B.A./ (5 Year Integrated) DEGREE EXAMINATION,
DECEMBER 2022.**

Second Semester

Part II – ENGLISH PAPER – II

**(CBCS 2018-19 Academic Year Onwards/
2021 Calendar Year onwards)**

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL the questions

1. Discuss the structure of “Lines composed upon Westminster Bridge” by William Wordsworth.
2. What is an ode?
3. Describe the setting of the poem “The Road Not Taken”.
4. What is the symbolic element of Stephen Spender’s “The Express”.
5. How is Shylock punished for seeking to take Antonio’s life?
6. What does Bassanio offer the young law clerk who saves Antonio? Why?

7. Mention two tips to write an essay effectively.
8. What is a report?
9. Who is Andrea? What is the meaning of the title “Andrea Del Sarto”.
10. What is the basic idea of the poem ‘Gitanjali’.

PART B — (5 × 5 = 25 marks)

Answer ALL questions. Choosing either (a) or (b).

11. (a) Comment on the Characteristics of a sonnet.

Or

- (b) Discuss the themes of “Lines composed upon Westminster Bridge”.

12. (a) Write a note on the symbolic elements of “The Road Not Taken”.

Or

- (b) Bring out the message of “Strange meeting”.

13. (a) Discuss the character of Portia in “The Merchant of Venice”.

Or

- (b) Analyse the trial or court scene of “The Merchant of Venice”.

14. (a) Write a report on the road accident that you have witnessed.

Or

- (b) Discuss the structure of note-making.

15. (a) Write an essay on the topic “COVID 19”.

Or

- (b) Discuss the different forms of writing reports.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE of the following

16. Consider “Andrea Del Sarto” as a dramatic monologue.
17. In what way is “Gitanjali” considered a song offering.
18. Critically analyse Sorojini Naidu’s “The coromandel Fishers”.
19. Discuss the background and themes of “The Merchant of Venice”.
20. Opera refers to a dramatic art form, originating in Europe, in which the emotional content is conveyed to the audience as much through music, both vocal and instrumental, as it is through the lyrics. By contrast, in music theatre an actor’s dramatic performance is primary, and the music plays a lesser role. The drama in opera is presented using the primary elements of theatre such as scenery, costumes, and acting. However, the words of the opera, or libretto, are sung rather than spoken. The singers are accompanied by a musical ensemble ranging from a small instrument ensemble to a full symphonic orchestra.
- (a) What is the importance of an opera?
- (b) We can understand from the reading that

- (i) People are captivated more by opera than musical theatre.
 - (ii) Drama in opera is more important than the music
 - (iii) Orchestra in operas can vary considerably in size
 - (iv) Musical theatre relies above all on music.
 - (v) There is argument over whether the music is important to the words in opera.
- (c) How is the acting in opera displayed?
 - (d) Discuss the performance in an opera.
 - (e) Give a suitable title and justify it.
-

D-7232

Sub. Code

13023

DISTANCE EDUCATION

B.Sc. DEGREE EXAMINATION, DECEMBER 2022

Second Semester

Computer Science

OBJECT ORIENTED PROGRAMMING AND C++

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Give some features of Object Oriented Programming.
2. What is Dynamic Binding?
3. Define Call by Reference.
4. Explain the Array of Objects.
5. What is Function Overloading?
6. Discuss in Virtual Function.
7. What is mean by stream with files?
8. Define the Inheritance of Class Template.
9. What are the uses of exceptions in operator overloaded function?
10. Exception in constructor and destructor.

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Explain the characteristics of Object Oriented Programming concepts.

Or

- (b) What are the Pros and Cons of Procedure Oriented Language.

12. (a) Write a short note on:

(i) Function Prototype

(ii) Return by reference

Or

- (b) Write short note on Dynamic objects.

13. (a) What is Inheritance? Explain with example the concept of multiple inheritance.

Or

- (b) Compare the Operator Overloading and Operator Overriding.

14. (a) Explain in detail about Function template with Arguments with suitable Example.

Or

- (b) Illustrate the file pointers and their Manipulators.

15. (a) Distinguish between throwing and catching mechanism.

Or

- (b) What are the exceptions handlings are available in C++ with syntax.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. List out difference between procedures oriented and Object Oriented Programming.
 17. Describe brief note on friend function, constant parameter and member function with examples.
 18. Explain the conversion between objects and basic data types.
 19. Elaborate the concept of class template with multiple arguments.
 20. Discuss about how to handling uncaught exceptions.
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D-7126

Sub. Code

31A/13731

DISTANCE EDUCATION

**Common for B.A./B.Sc./B.C.A. DEGREE EXAMINATION,
DECEMBER 2022.**

Third Semester

Part I – TAMIL PAPER III

**(CBCS 2018 – 2019 Academic Year Onwards/2021 Calendar
Year onwards)**

Time : Three hours

Maximum : 75 marks

பகுதி அ — (10 × 2 = 20 மதிப்பெண்கள்)
அனைத்து வினாக்களுக்கும் விடையளிக்க.

1. ஐங்குறுநூற்றின் குறிஞ்சித்திணைப் பாடல்களைப் பாடியவர் யார்?
2. 'நெடுந்தொகை' என்னும் சிறப்புப் பெயர் கொண்ட சங்க இலக்கியம் யாது?
3. நற்றிணை - பெயர்க்காரணம் கூறுக.
4. பாசறையின் வகைகளைக் குறிப்பிடுக.
5. சங்க இலக்கியத்தில் அதிகப் பாடல்களைப் பாடியவர்?
6. 'இற்செறிப்பு' என்றால் என்ன?
7. புறநானூறு - நூற் குறிப்பு வரைக.
8. திருக்குறளின் சிறப்புக்களைப் போற்றி எழுந்த நூல்?
9. இராசராசசோழன் நாடகத்தை இயற்றியவர் யார்?
10. சுவடுகள் நாவலில் காந்தியக் கொள்கையைப் பேசும் பாத்திரம்?

பகுதி ஆ — (5 × 5 = 25 மதிப்பெண்கள்)

பின்வரும் வினாக்களுக்கு ஒரு பக்க அளவில் விடை தருக.

11. (அ) ஊடல் பொருளுக்கான திணை யாது? ஐங்குறுநூற்றின் வழி விளக்குக.

(அல்லது)

(ஆ) கபிலர் பாடல்களின் தனிச் சிறப்புகளைத் தொகுத்துரைக்க.

12. (அ) ஐங்குறுநூற்று நூல் தொகுப்பு வரலாற்றை எடுத்துரைக்க.

(அல்லது)

(ஆ) அகநானூற்றின் நூல் அமைப்பும் பகுப்பும் குறித்து விளக்கி வரைக.

13. (அ) நற்றிணையில் காணப்படும் மணிமணியான கருத்துக்களைத் தொகுத்துரைக்க.

(அல்லது)

(ஆ) தலைமகன் பாசறையிலிருந்து சொல்லிய செய்தியைச் சேந்தம்பூந்தனார் வழி விளக்குக.

14. (அ) அறிவுடையார் குறித்து வள்ளுவர் உரைக்குமாற்றை எழுதுக.

(அல்லது)

(ஆ) நான்மணிக்கடிகையிலுள்ள எளிமையான கருத்துக்களை எடுத்துரைக்க.

15. (அ) இராசராசசோழன் நாடகக் கதைக்களத்தைச் சுருக்கி வரைக.

(அல்லது)

(ஆ) சுவடுகள் நாவல் கதைக்கருவை விளக்கி எழுதுக.

பகுதி இ — ($3 \times 10 = 30$ மதிப்பெண்கள்)

பின்வரும் வினாக்களில் மூன்றனுக்குக் கட்டுரை வடிவில் விடை தருக.

16. கபிலரின் கவித்திறத்தை நும் பாடப் பகுதியால் நிறுவுக.
17. மஞ்ஞைப்பத்துப் பாடல்களின் கருத்துக்களைத் தொகுத்துரைக்க.
18. அகநானூற்றுப் பாடல்களால் அறியவரும் வரலாற்றுச் செய்திகளை விவரிக்க.
19. திருக்குறளின் அமைப்பும் சிறப்பும் குறித்துக் கட்டுரை வரைக.
20. சுவடுகள் நாவலின் ராசாத்தி பாத்திரப் படைப்பைச் சான்றுகளுடன் பாராட்டியுரைக்க.

D-7127

Sub. Code

31B

DISTANCE EDUCATION

**COMMON FOR B.A./B.Sc./B.C.A. DEGREE EXAMINATION,
DECEMBER 2022.**

Third Semester

Part I – HUMAN SKILLS DEVELOPMENT – I

(CBCS 2018-19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL the questions

1. What are the different types of human skills?
2. What is meant by interpersonal relationship?
3. Mention any two factors for building positive personality.
4. Define self-esteem.
5. Why the goal setting skill is important?
6. What are the steps to be followed in decision making skills?
7. What is the structure of negotiating skills?
8. How can you create positive attitudes in human relations?

9. What are the different types of stress?
10. Write any two qualities of a good leader.

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions choosing either (a) or (b).

11. (a) Differentiate interpersonal relationship and interpersonal behaviour.

Or

- (b) Write a short note on significance of thinking ahead.

12. (a) Write short note on self efficacy.

Or

- (b) Illustrate the importance of goal setting skills.

13. (a) What are the basic elements of negotiating skills?

Or

- (b) Write a note on the types of attitudes.

14. (a) Why coping with change is necessary for the development of human relations?

Or

- (b) What are the different styles of selecting a leader?

15. (a) What are the duties of a counsellor?

Or

- (b) Write a note on anger management.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE of the following

16. Write an essay on different levels of mind functions.
 17. Explain the need of developing personality and the ways of developing personality.
 18. Explain briefly about different types of skills in developing personality.
 19. Write briefly on the qualities of a good leader.
 20. What is meant by conflicts? Explain its types and causes.
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D-7128

Sub. Code

32/13732

DISTANCE EDUCATION

**COMMON FOR B.A. / B.Sc. / B.C.A. DEGREE
EXAMINATION, DECEMBER 2022.**

Third Semester

Part – II ENGLISH PAPER - III

**(CBCS 2018 – 2019 Academic Year Onwards /
2021 Calender years Onwards)**

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Why did Swami feel relieved at the end?
2. What did Matilda suffer from?
3. What kind of person is Lomov in “The Proposal”?
4. Write a few lines about the character of Mrs. Meldon.
5. Who opens the door when Jean goes to get the tart?
6. What is the main idea of “The Refugee”?
7. Who are all the friends in the play “Reunion”?
8. Who is the author of the play “A Kind of Justice”?
9. Define verb with examples.
10. What is Agenda?

PART B — ($5 \times 5 = 25$ marks)

Answer the following questions, choosing either (a) or (b).

11. (a) Narrate how a coward boy Swami became a hero overnight?

Or

- (b) Describe the circumstances under which the verger had to lose his job.

12. (a) What is the importance of dream in the play “The Boy Comes Home”?

Or

- (b) Write a brief character sketch of Lomov from “The proposal”?

13. (a) Sketch the character Betty in “The Silver Idol”?

Or

- (b) What happened at Comilla University?

14. (a) Describe how Jean and Pierre managed to get the Pie.

Or

- (b) Write a short note on the treatment of Partition in “The Refugee”.

15. (a) How do you prepare minutes of a meeting?

Or

- (b) What are the basic formats for writing an essay?

PART C — (3 × 10 = 30 marks)

Answer any THREE of the following questions.

16. Discuss the comic elements in the play “The Boy comes Home”.
 17. Write an essay on the Westerner’s view of Eastern countries as illustrated in “The Silver Idol”?
 18. Comment on the view of justice according to Margaret Wood in “A King of Justice”.
 19. To what extent does yassin become a representative of all refugees?
 20. Write an essay on advantages and disadvantages of Mobile – Phone.
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D-7233

Sub. Code

13033/13233

DISTANCE EDUCATION

**B.Sc. (Computer Science)/ B.Sc. (CS) (Lateral Entry) DEGREE
EXAMINATION, DECEMBER 2022.**

Third Semester

DATA STRUCTURES AND ALGORITHMS

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define : Space Complexity.
2. Define: Multi Dimensional Array.
3. What will be the basic principle of Doubly Linked List?
4. In which way the queue will differ from stack?
5. Define: Tree Traversal.
6. What is meant by Binary Search tree?
7. List out the disadvantages for linear searching.
8. Enumerate the necessities for searching techniques.
9. What is meant by selection sort?
10. Define : Radix Sort.

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions by choosing either (a) or (b).

11. (a) Describe the concept of Time and Space Complexity.

Or

- (b) Analyzing the Primitive data types in Data Structures.

12. (a) Describe about prefix expression evaluation in stack with an example.

Or

- (b) Write the insertion and Deletion of single linked list with an example.

13. (a) Illustrate the types of Binary Search Tree.

Or

- (b) Describe: Binary tree traversal.

14. (a) Describe the Linear searching algorithm. Give example.

Or

- (b) List out the difference between Searching and Sorting.

15. (a) Write an algorithm for Bubble Sort. Explain with example.

Or

- (b) What is the principle of selection sort and give an example.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Explain in detail about the Two dimensional and Multidimensional array with an example.
 17. Illustrate the doubly Linked List representations with example.
 18. Explain in detail about insertion and deletion operation on Binary Tree.
 19. Explain the Linear Search algorithm with example and analyze its time complexity.
 20. Write the algorithm for quick sort with examples and discuss their complexities.
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D-7129

Sub. Code

41A/13741

DISTANCE EDUCATION

**Common for B.A./B.Sc./B.C.A. DEGREE EXAMINATION,
DECEMBER 2022.**

Fourth Semester

Part I: TAMIL PAPER – IV

**(CBCS 2018 – 2019 Academic Year Onwards/2021 Calendar
Year onwards)**

Time : Three hours

Maximum : 75 marks

பகுதி அ — (10 × 2 = 20 மதிப்பெண்கள்)

அனைத்து வினாக்களுக்கும் விடையளிக்க.

1. யாப்பியல் கூறும் அசை வகைகளை எழுதுக.
2. அகவல் பா என அழைக்கப்படும் 'பா' எது?
3. சிந்து எத்தனை இசை உறுப்புகளால் ஆனது?
4. ஊடல் சார்ந்த நிகழ்ச்சிகளைப் பேசும் அகத்திணை யாது?
5. கையறுநிலை - குறிப்பு வரைக.
6. மதி போன்ற முகம் - இத்தொடரில் உவமை எது?
7. ஐங்குறுநூற்றில் மருதப் பாடல்களைப் பாடியவர் யார்?
8. புலவராற்றுப்படை என அழைக்கப்படும் நூல் யாது?
9. 'இராமாவதாரம்' என்னும் காப்பியத்தை இயற்றியவர் யார்?
10. 'பாண்டியன் பரிசு' காப்பியத்தின் கதைத் தலைவன்?

பகுதி ஆ — (5 × 5 = 25 மதிப்பெண்கள்)

பின்வரும் வினாக்களுக்கு ஒரு பக்க அளவில் விடை தருக.

11. (அ) சீர் எத்தனை வகைப்படும்? அவற்றைச் சான்றுகளுடன் விளக்குக.

(அல்லது)

- (ஆ) படிமம் என்றால் என்ன? புதுக்கவிதையில் பெறுமிடத்தைச் சுட்டி வரைக.

12. (அ) முல்லைத்திணையின் கருப்பொருட்களைப் பட்டியலிடுக.

(அல்லது)

- (ஆ) ஆநிரை கவர்தல் என்றால் என்ன? அத்திணையை விரிந்துரைக்க.

13. (அ) எல்லா விளக்கும் விளக்கல்ல சான்றோர்க்குப் பொய்யா விளக்கே விளக்கு - இக்குறளில் பயின்று வரும் அணியை விளக்குக.

(அல்லது)

- (ஆ) சிலேடை அணியைச் சான்று காட்டி விளக்கி வரைக.

14. (அ) தொல்காப்பியம் தமிழரின் அடையாளமாக விளங்குவதை நிறுவுக.

(அல்லது)

- (ஆ) நாலடியார் நூல் வரலாற்றையும் சிறப்பியல்புகளையும் எழுதுக.

15. (அ) ஐம்பெருங்காப்பியங்கள் யாவை? அவற்றின் சிறப்புகளை எழுதுக.

(அல்லது)

- (ஆ) இயேசு காவியம் கூறும் செய்திகளை எடுத்துரைக்க.

பகுதி இ — ($3 \times 10 = 30$ மதிப்பெண்கள்)

பின்வரும் வினாக்களில் மூன்றனுக்குக் கட்டுரை வடிவில் விடை தருக.

16. வெண்பாவின் இலக்கணத்தை வகைகளுடன் விளக்குக.
17. அன்பின் ஐந்திணைகள் குறித்த செய்திகளைத் தொகுத்துரைக்க.
18. தற்குறிப்பேற்ற அணியின் இலக்கணத்தைச் சான்றுகள் காட்டி விவரிக்க.
19. சிலப்பதிகாரம் ஏன் தமிழ்க்காப்பியம் என்று அழைக்கப்படுகின்றது? விவரிக்க.
20. பாஞ்சாலி சபதத்தின் கதைக் களத்தை விரிந்துரைக்க.

D-7130

Sub. Code

41B

DISTANCE EDUCATION

**COMMON FOR B.A./B.Sc./B.C.A. DEGREE EXAMINATION,
DECEMBER 2022.**

Fourth Semester

Part I – HUMAN SKILLS DEVELOPMENT – II

(CBCS–2018-19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions

1. What are the different types of counselling techniques?
2. Why managerial skill is important for human skills development?
3. What are the ways to develop our communication skills?
4. Define conceptual skills.
5. Mention any two practices in developing technical skills.
6. What is the role of preparation in presentation skills?
7. What are the various types of organizational skills?
8. How can you select a leader?
9. What are the major qualities for formal interactions?
10. What is the role of eye contact in problem solving skills?

PART B — (5 × 5 = 25 marks)

Answer the following questions choosing either (a) or (b).

11. (a) Write a short note on the salient aspects of counselling.

Or

- (b) Differentiate interpersonal and intrapersonal communication.

12. (a) Illustrate the tools and procedure in technical skills.

Or

- (b) Write the function of delivery in presentation skills.

13. (a) What are the important qualities of a multi-tasking skills?

Or

- (b) Write some ways to select a leader for a HR organization.

14. (a) Write a note on the etiquettes of interactions in a group discussion.

Or

- (b) What are the salient aspects of understanding skills in developing human relationships?

15. (a) What is the role of cooperative learning skills in human skills development?

Or

- (b) Write a note on causes of making social responsibilities.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE of the following questions.

16. Explain briefly on importance and techniques of counselling.
 17. Write an essay on different types of technical skills.
 18. List out the types of communication skills. Explain briefly.
 19. Write briefly on understanding skills in group communication.
 20. Explain the role of handling and facing situations in problem solving skills.
-

D-7131

Sub. Code

42/13742

DISTANCE EDUCATION

**Common for B.A./B.Sc./B.C.A. DEGREE EXAMINATION,
DECEMBER 2022.**

Fourth Semester

English

Part II – ENGLISH Paper – IV

**(CBCS 2018 – 2019 Academic Year Onwards/
2021 Calendar Year Onwards)**

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. What surprise was in store for Lalajee before he left Mokameh Ghat?
2. What is the pontoon bridge? Why has it been made?
3. How does Eliza dress herself up when she visits Higgins to ask to take speech lessons?
4. Shortly describe about Swami's four friends.
5. Why did Bassanio approach Antonio?
6. What similes does Romeo use to convey Juliet's beauty?
7. What were Martin Luther King's dreams?
8. When was the first meeting occurred between Nehru and Toynbee?

9. Write the correct question tag?
- (a) The weather is really bad today
 - (b) They are not in Mumbai at the moment.
10. Expand the Proverb, “A stitch in time saves nine”.

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Explain the qualities of Lalajee as described by Jim Corbett.

Or

- (b) Why was schatz sad? Explain.

12. (a) What is the significance of the title “Pygmalion”?

Or

- (b) Swami and Friends a realistic drama. Elaborate.

13. (a) Why does Antonio agree to shylock’s terms for the loan?

Or

- (b) Sketch the character of Romeo.

14. (a) What sort of discrimination did Martin Luther King Jr. fight against?

Or

- (b) Describe the first meeting of Toynbee and Nehru.

15. (a) Identify the sentence for clause or phrase.
- (i) He works hard everyday
 - (ii) Before the next light
 - (iii) In a dark and dangerous hallway
 - (iv) If I need to call you
 - (v) After a good day
 - (vi) Because it's the right thing to do
 - (vii) As quickly as possible
 - (viii) This car's not working
 - (ix) Working for himself
 - (x) Whenever it gets cold

Or

- (b) Explain Group Discussion.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

- 16. Give the summary of 'Lalajee'.
- 17. Discuss the relationship between Higgins and his mother.
- 18. Character sketch of Antonio in Merchant of Venice.
- 19. Write about the racial discrimination prevailed during the time of Martin Luther King Jr.
- 20. Illustrate the final meeting of Toynbee with Nehru.

D-7234

Sub. Code

13043/13243

DISTANCE EDUCATION

**B.Sc. (Computer Science)/ B.Sc. (CS) (Lateral Entry) DEGREE
EXAMINATION, DECEMBER 2022.**

Fourth Semester

JAVA PROGRAMMING

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Expand WWW.
2. Define Constant.
3. What is meant by instance variable?
4. List out the types of Looping statements.
5. Define Constructor.
6. Give the use of final keyword in java.
7. Define Package.
8. List out any two pre- defined Exception.
9. Define Applet.
10. List out any two uses of Graphics class.

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Elucidate “Command-line arguments” with a suitable example.

Or

- (b) Write a short note on Type casting in Java.

12. (a) Discuss increment and decrement operators in Java with Example.

Or

- (b) Differentiate between class and interface in Java.

13. (a) Describe method overloading in Java with Example.

Or

- (b) Write a short note on Strings in Java.

14. (a) Write a short note on Life cycle of Thread in Java.

Or

- (b) Discuss multiple Catch in Exception.

15. (a) Write a short note on Applet Tags with example.

Or

- (b) Write a Java program to draw Line using Graphics class.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Discuss in detail about Features of Java.
17. Elaborate in detail about branching statements in Java with example.

18. Explain Hierarchical inheritance with a program example.
 19. Describe about Exception Handling in Java with example.
 20. Discuss in detail about Virtual function in Java with example.
-

D-7235

Sub. Code

13051/13251

DISTANCE EDUCATION

**B.Sc. (Computer Science)/ B.Sc. (CS) (Lateral Entry) DEGREE
EXAMINATION, DECEMBER 2022.**

Fifth Semester

OPERATING SYSTEMS

(CBCS – 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. What is Operating System?
2. What are the different types of Interrupts?
3. What are the methods to solve mutual exclusion in operating systems?
4. Define concurrent programming.
5. How did you prevent the deadlock?
6. What is semaphore with example?
7. What do you mean by real memory in OS?
8. What are the types of memory allocation in operating system?

9. Define the use of Free space management?
10. Write short note on file optimization and file allocation?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL the questions by choosing either (a) or (b).

11. (a) What are the goals of Operating System in detail.

Or

- (b) Elaborate Process Management Interrupts and Inter process Communication.

12. (a) Explain in detail the concurrent Programming.

Or

- (b) Discuss Asynchronous concurrent execution.

13. (a) What are the conditions for Deadlock in detail.

Or

- (b) Give some related problem indefinite postponement.

14. (a) Distinguish between continuous and non-continuous memory allocation.

Or

- (b) How operating systems manage the Real memory and Virtual memory.

15. (a) Discuss the concept of data hierarchy in file system.

Or

- (b) Write short note on
- (i) Rotational Optimization
 - (ii) Disk Scheduling strategies

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. What are the Process Concept in Operating System in Detail.
 17. Discuss the concept of mutual exclusion.
 18. How to avoid the deadlock and what are the steps to recover?
 19. Difference between the Real Memory and Virtual Memory?
 20. Explain the concept of file system in operating systems.
-

D-7236

Sub. Code

13052/13252

DISTANCE EDUCATION

**B.Sc., (Computer Science)/ B.Sc. (CS) (Lateral Entry) DEGREE
EXAMINATION, DECEMBER 2022.**

Fifth Semester

**RELATIONAL DATABASE MANAGEMENT
SYSTEMS (RDBMS)**

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. List the disadvantages of file processing system?
2. Define Entity.
3. Write the steps for querying a database.
4. Name the various types of joins.
5. What is a UNIQUE constraint?
6. List the four important properties of transaction that must ensure to maintain database.
7. What is commit point of a transaction?
8. State the types of locks.
9. Define hashing.
10. What are the two categories of primary index?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) List out the main characteristics of the database approach and specify how it differs from traditional file system.

Or

- (b) Distinguish between primary and super keys.
12. (a) Describe the concept of Referential Integrity.

Or

- (b) Write short notes on natural join operation in relational algebra.
13. (a) Why 4NF is a normal form more desirable than BCNF?

Or

- (b) Explain the role of functional dependency in DBMS.
14. (a) What are the ACID properties of a transaction? Explain.

Or

- (b) Briefly describe the timestamp-based concurrency control protocol.
15. (a) Compare the different types of file organizations.

Or

- (b) What is indexed sequential access method (ISAM)? What are its advantages and disadvantages.

Part C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Explain the various notations used in E-R diagram with example.
 17. What do you mean by Views? How view is created. Explain in detail.
 18. How the multi-valued dependencies form the basis of fourth normal form? Explain.
 19. Describe in detail database recovery techniques based on deferred and immediate update.
 20. Briefly explain the following:
 - (a) Structure of B+ tree
 - (b) Insertion and deletion in B+ tree.
-

D-7237

Sub. Code

13053/13253

DISTANCE EDUCATION

B.Sc. (CS)/ B.Sc. (CS) (Lateral Entry) DEGREE
EXAMINATION, DECEMBER 2022.

Fifth Semester

Computer Science

COMPUTER ARCHITECTURE

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — ($10 \times 2 = 20$ marks)

Answer ALL questions.

1. Define Computer Architecture.
2. What are the floating point instructions in MIPS?
3. What is Multiple Issue? Write any two approaches.
4. What is meant by Pipeline Stall?
5. Define VLIM.
6. What is meant by Speculation?
7. What are the writing strategies in Cache Memory?
8. Write the structure of Memory Hierarchy?
9. Why serialization of reads and writes are important in a Multi-Processor Environment?
10. What is fine grained Multithreading?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Explain about Measuring and Improving the Performance of computer.

Or

- (b) Write in detail about Various Addressing Modes?

12. (a) Write about the classification of Data Hazards.

Or

- (b) Define IP6 Micro Architecture.

13. (a) Briefly explain about creating a single Data Path with neat diagram.

Or

- (b) Describe about Static Branch Prediction.

14. (a) Write a short notes on Storage Devices and its types?

Or

- (b) Describe in detail the Process involved in designing an I/O system.

15. (a) Explain in detail about Multithreading.

Or

- (b) Describe about Static Branch Prediction.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Explain in detail about Operands and Operations for Media and Signal Processing.
 17. Describe about Dynamic Hardware Prediction in detail.
 18. Discuss the following:
 - (i) Hardware Speculation
 - (ii) Software Speculation
 19. Discuss Reliability, Availability and Dependability for storage devices in detail.
 20. Discuss the Synchronization mechanisms for larger scale multiprocessors.
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D-7238

Sub. Code

13061/13261

DISTANCE EDUCATION

**B.Sc. (Computer Science)/ B.Sc. (CS) (LATERAL ENTRY)
DEGREE EXAMINATION, DECEMBER 2022.**

Sixth Semester

COMPUTER NETWORK

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. List the metrics that influence the performance of computer Networks.
2. What is the difference between port address, logical address and physical address?
3. Mention the advantage and disadvantage of error correction by receiver, as compared to error detection.
4. Write short notes on CSMA/CD?
5. Compare circuit switching and virtual circuit based packet switching.
6. How do routers differentiate the incoming unicast, multicast and broadcast IP Packets.
7. What are TCP and UDP protocols?

8. Write down the present information contained in a DNS Resource record.
9. Is a cryptographic hash function, an irreversible mapping? Justify your answer.
10. How the authentication is provided based on shared secret key?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) What are the transmission modes in Computer Networks. Explain.

Or

- (b) Give explanation in the various categories of networks.
12. (a) With an example explain the process of Error detection using VRC.

Or

- (b) Discriminate ALOHA and CDMA. Make outline its advantages and Disadvantages.
13. (a) Give an example explain the Dynamic routing algorithms used in computer networks.

Or

- (b) Differentiate the open loop congestion control and closed loop congestion control.
14. (a) List out the transport layer service primitives and their meaning.

Or

(b) Write short notes on:

- (i) Mail Exchange
- (ii) SNMP

15. (a) What are the fundamental cryptographic principles? Explain.

Or

(b) Specify the differences between;

- (i) Block cipher and stream cipher
- (ii) Cryptanalytic attack and brute force attack.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

- 16. Explain the ISO/OSI reference model with neat diagram.
- 17. With an example explain the shortest path routing algorithms used in computer networks.
- 18. Determine the significance of switching? What are different switching techniques used in computer networks? Discuss.
- 19. Elaborate on TCP Congestion Control Mechanism. Discriminate these mechanisms.
- 20. Explain RSA algorithm and give example of generation of public, private keys, ciphertext.

D-7239

Sub. Code

13062/13262

DISTANCE EDUCATION

**B.Sc. (Computer Science) B.Sc. (CS) (LATERAL ENTRY)
DEGREE EXAMINATION, DECEMBER 2022.**

Sixth Semester

VISUAL BASIC PROGRAMMING

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define event in Visual Basic.
2. State the various methods to execute a VB program.
3. Differentiate between the explicit and implicit declarations giving example.
4. What is Error value?
5. Differentiate between procedures and functions.
6. State the three states for loading and unloading forms.
7. What are the function of a Toolbar?
8. Write the syntax to access the child form.
9. Define arguments of AddNew method
10. Write the services provided by OLE DB.

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) What are the various features of Visual Basic?

Or

- (b) List any five properties of VB Form.

12. (a) Discuss the static variables and different scopes for static variables giving appropriate examples.

Or

- (b) How can we select multiple items in a list box? Explain.

13. (a) Define recursive function and write the program for recursive function.

Or

- (b) What is control array? How array elements can be processed in VB program?

14. (a) Elaborate on the control menu commands.

Or

- (b) How to modify and delete menu items? Explain with an example.

15. (a) Write the advantages and disadvantage of DAO, RDO and ADO.

Or

- (b) Describe about creating a query dynamically, using a parameterized query and action queries giving appropriate example codes.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Explain any eight visual basic toolbox controls.
 17. Design an application to display traffic lights. The red and green lights should display for 12 seconds and the yellow light should be on for 5 Seconds.
 18. How to handle string in VB? Explain different string handling functions and methods.
 19. Briefly discusses about the MDI forms along with their properties used in Visual Basic.
 20. Describe the five move methods that could be used for record navigation, Explain with examples.
-

D-7240

Sub. Code

13063/13263

DISTANCE EDUCATION

**B.Sc. (Computer Science)/ B.Sc. (CS) (Lateral Entry) DEGREE
EXAMINATION, DECEMBER 2022.**

Sixth Semester

SOFTWARE ENGINEERING

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Write Short notes of Software Myths.
2. If you have to develop a word processing software product, what process model will you choose? Justify.
3. Differentiate verification and validation. Give an example.
4. Mention the objectives of Analysis modeling?
5. How does the Data Flow Diagram help in design of software system?
6. What is the use of User Interface prototyping?
7. List the steps followed in testing?
8. Define: Reverse Engineering.

9. Compare: Project Risk vs. Business Risk.
10. State Productivity and how cost related to function points?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) State the major differences between system engineering and software engineering? Discuss.

Or

- (b) Explicate the different Models and capability Levels of CMMI.

12. (a) Distinguish between functional and non-functional requirements.

Or

- (b) Discuss about the cardinality and modality with suitable example.

13. (a) What is Structured design? Illustrate the structured design process from DFD to structured chart with a case study.

Or

- (b) (i) Explain in detail about the characteristics and criteria for a good design.
(ii) Describe the golden rules for interface design.

14. (a) Classify automated testing tools. How test cases are generated? Discuss when to stop testing? What is performance testing? Describe.

Or

- (b) What are the various testing strategies to software testing?

15. (a) Summarize the Software Reviews and Formal Technical reviews.

Or

- (b) Write short notes on:
- (i) Risk Projection
 - (ii) Risk refinement
 - (iii) Risk Mitigation
 - (iv) Risk Monitoring and Risk Management.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Illustrate the necessities of Life cycle model. Elaborate on the various issues of Software life cycle.
17. Inscribe a detailed note on scenario-based modeling.
18. (a) Discuss in detail about the design process in software development process.
- (b) Justify “Design is not coding and coding is not design”.
19. What are the various testing strategies to software testing? Discuss them briefly.
20. Explain in detail about the various clauses in ISO 9000 series. Analyze the internal quality system framework of ISO 9000-3.
-

D-1788

Sub. Code

11 A/13711/0111

DISTANCE EDUCATION

**COMMON FOR B.A./B.Sc./B.B.A./B.B.A. (Banking)/B.C.A./
M.B.A. (Five Year Integrated) DEGREE EXAMINATION,
DECEMBER 2023.**

First Semester

Part I — TAMIL – PAPER – I

**(CBCS 2018-19 Academic Year Onwards/2021 Calendar Year
Onwards)**

Time : Three hours

Maximum : 75 marks

பகுதி அ — (10 × 2 = 20 மதிப்பெண்கள்)

அனைத்து வினாக்களுக்கும் விடையளிக்க.

1. குருவாயூர் கண்ணனின் நிறம் யாது?
2. ஆயர்பாடி மாளிகையில் கண்ணன் செய்வது யாது?
3. கண்ணதாசனின் இயற்பெயரைக் குறிப்பிடுக.
4. பட்டுக்கோட்டை கல்யாண சுந்தரம் பிறந்த ஊர் யாது?
5. 'செய்யும் தொழிலே தெய்வம்' என்னும் பாடல் இடம்பெற்ற திரைப்படம்?
6. பாரத மாதாவிற்குத் 'திருப்பள்ளி எழுச்சி' பாடியவர் யார்?
7. சர்ப்ப யாகம் - நூல் குறிப்பு வரைக.
8. கண்ணகியின் சிலம்பில் எப்பரல்கள் இருந்தன?
9. உமறுப்புலவரை ஆதரித்த வள்ளல் பெயரை எழுதுக.
10. தேம்பாவணி - பொருள் தருக.

பகுதி ஆ — (5 × 5 = 25 மதிப்பெண்கள்)

பின்வரும் வினாக்களுக்கு ஒரு பக்க அளவில் விடை தருக.

11. (அ) கண்ணன் துயில் எழுப்ப கோபியரைக் கண்ணதாசன் அழைக்குமாற்றை எழுதுக.

(அல்லது)

- (ஆ) கவிஞர் பட்டுக்கோட்டை கல்யாண சுந்தரம் பற்றி குறிப்பு வரைக.

12. (அ) கண்ணனின் குறும்புகளைப் பாரதியார் எங்ஙனம் பாடுகிறார்?

(அல்லது)

- (ஆ) பிறை நிலவைக் கவிஞர் பெ.தூரன் உருவகிக்குமாற்றை விவரிக்க.

13. (அ) 'வெறும் புகழ்' கவிதை வழி வல்லிக்கண்ணன் யதார்த்தத்தை எவ்வாறு உணர்த்துகிறார்?

(அல்லது)

- (ஆ) கண்ணகியின் வருகையை வாயில் காவலன் மன்னனுக்கு எங்ஙனம் அறிவிக்கிறான்?

14. (அ) நபிகள் நாயகம் அறபியை ஆட்கொண்ட திறத்தை விளக்கி வரைக.

(அல்லது)

- (ஆ) இறைவனை வணங்க கன்னித்தாயும் சூசையும் ஆயர்களை அழைக்குமாற்றை எழுதுக.

15. (அ) வழக்குரை காதையை சிலப்பதிகாரத்தின் வழி நின்று விளக்குக.

(அல்லது)

- (ஆ) கு.ப. இராஜகோபாலனின் படைப்புகளை விளக்குக.

பகுதி இ — (3 × 10 = 30 மதிப்பெண்கள்)

பின்வரும் வினாக்களில் மூன்றனுக்குக் கட்டுரை வடிவில் விடை தருக.

16. கண்ணதாசன் கண்ணனைப் புகழ்ந்துரைக்குமாற்றை விளக்கி வரைக.
17. பாரதிதாசன் உலகப்பன் பாடல் வழிக் கூறும் கருத்துக்களைத் தொகுத்துரைக்க.
18. இராமனின் சிறப்புகளைக் கம்பர் எடுத்துரைக்குமாற்றை விவரிக்க.
19. இளங்கோவடிகளின் கவித்திறத்தை நும் பாடப் பகுதியால் பாராட்டியுரைக்க.
20. தேம்பாவணி காப்பியச் சிறப்புகளை எடுத்துரைக்க.

D-1789

Sub. Code

11B/0311B

DISTANCE EDUCATION

**COMMON FOR B.A./B.Sc./B.B.A./B.B.A. (Banking)/B.C.A./
M.B.A. (5 Year Integrated) DEGREE EXAMINATION,
DECEMBER 2023.**

First Semester

Part I — COMMUNICATION SKILLS – I

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Write the origin of the term 'Communication'.
2. Write the meaning of 'Communication'.
3. What is 'Oral Communication'?
4. Write any one importance of Oral Communication.
5. When do we claim that a communication is effective?
6. What is called as Body Language?
7. What are gestures?
8. Mention any one purpose of 'Meeting'.
9. What is logical presentation in Group Discussion?
10. Define 'Professional report'.

SECTION B — ($5 \times 5 = 25$ marks)

Answer ALL questions, Choosing either (a) or (b).

11. (a) Discuss the different types of Communication.

Or

- (b) Write a note on Intonation.

12. (a) Discuss telephonic conversation as one of the forms of dyadic conversation.

Or

- (b) Discuss the forms of Oral Communication.

13. (a) Write on the Format of a Report.

Or

- (b) Write a note on the types of Reports.

14. (a) Write a note on Content Writing.

Or

- (b) Discuss the three stages 'drafting, correction and final draft preparation'.

15. (a) Discuss the two senses in which the word 'meeting' is used.

Or

- (b) Discuss the purpose of conducting group discussion.

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Examine the principles of effective communication.
17. Discuss the purpose of meetings.

18. Elucidate the features of written communication.
 19. Analyse the steps involved in Essay Writing.
 20. Explain the ways of organizing a group discussion.
-

D-1790

Sub. Code

**12/13712/0112/
0312**

DISTANCE EDUCATION

**COMMON FOR B.A/B.Sc./B.B.A./B.B.A.
(BANKING)/B.C.A./M.B.A. (5 YEAR INTEGRATED)
DEGREE EXAMINATION, DECEMBER 2023.**

First Semester

Part II – ENGLISH PAPER – I

**(CBCS 2018 – 2019 Academic Year Onwards/2021 Calendar
Year Onwards)**

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What makes water one of the most powerful and wonderful things on earth?
2. Why did Mrs. Packletide want to kill a tiger?
3. From where did Narwa and Haria collect bamboos for basket making?
4. How does the essay 'On Letter Writing' begin?
5. What are the good points of our civilization according to C.E.M. Joad?
6. Write Joad's opinion on machines in modern man's life.
7. Put the verbs in the brackets in the correct tense:
 - (a) I _____ (fall) asleep in the middle of his boring story.
 - (b) Even the best of students _____ (make) such mistakes.

8. Fill in the blanks with Prepositions:
- (a) He is running _____ the temple.
 - (b) He left _____ London yesterday.
9. Fill in the blanks with suitable Articles.
- (a) Which road is _____ right one?
 - (b) He is _____ salesman of _____ rare merit.
10. Write the purpose of Précis Writing.

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) What are the measures that are used to prevent soil erosion? ('Water the Elixir of Life')
- Or
- (b) Do you think Mrs. Packletide was able to achieve her heart's desire? Give reasons.
12. (a) How does Jim Corbett portray the friendship between Nawara and Haria?
- Or
- (b) How should a letter be written according to Alpha of the Plough (A.G. Gardiner)?
13. (a) Present the description given by Joad on modern civilization man's life.
- Or
- (b) Write a short summary of 'Food' by J.B.S. Haldane.

14. (a) You have arranged to meet a friend at the railway station but you could not do so. Write a letter of apology, explaining the lapse on your part.

Or

- (b) Use the correct form choosing from the verbs given in brackets:

- (i) Ten thousand rupees a month _____ (is /are) a good salary.
- (ii) Six months _____ (is/are) a long time to stay away from home.
- (iii) Either my mother or I _____ (am/is) to do the work.
- (iv) Neither Sita nor her friends _____ (are/is) attending marriage.
- (v) Bread and butter _____ (is/are) enough for me.

15. (a) Build a dialogue between you and your teacher. You are asking him/her to give you guidance for choosing a suitable course.

Or

- (b) Write a paragraph on the following topic.
'The First money I earned'.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

- 16. Why does C.V. Raman call water as elixir? Justify.
- 17. Bring out the humour in 'Mrs. Packletide's Tiger'.
- 18. What does C.E. Joad talk about our civilization in his essay 'Our Civilization'? Explain.

19. Write a paragraph on using the hints given below:

A king unhappy – his people lazy – plans to teach them a lesson – puts a big stone in the middle of the road and purse of gold under it – many people pass by – no effort made to remove the stone – all go round it – curse the stone – blame the government – and await its removal – the stone lays there for a month – a stranger passes by – removes the stone with difficulty – finds the purse of gold – feels happy – the people feel ashamed...

20. Report the following conversation in Indirect Speech.

- (a) Can you tell me how to find the post office?
 - (b) Which post office do you mean?
 - (c) Is there more than one? I mean the one on the campus.
 - (d) Oh, the Campus Post Office? Go straight along this road to the third street light and then turn right.
 - (e) I see. Will it be open at this time?
-

D-1907

Sub. Code

13013

DISTANCE EDUCATION

**B.Sc. (CS) (Computer Science) DEGREE EXAMINATION,
DECEMBER 2023.**

First Semester

PROGRAMMING IN C

(CBCS 2018-19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define Variable
2. What is mean by token?
3. Why do use header files?
4. What is array?
5. Comment on Recursion.
6. What is called static variable?
7. What is called null pointer?
8. List out drawback of pointers.
9. What is file?
10. What are the different file operations?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions choosing either (a) or (b).

11. (a) Describe the structure of C program.

Or

- (b) Write about evaluation of expression.

12. (a) Explain formatted input function in C.

Or

- (b) Write the syntax for nested if and else if ladder with example.

13. (a) Differentiate between call by value and call by reference.

Or

- (b) Write the block structure of function.

14. (a) How to declare pointer variable? Explain.

Or

- (b) Explain about pointer to function.

15. (a) Explain opening and closing a file with example.

Or

- (b) What is called command line argument? Explain.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Describe the four basic data types.
 17. Explain one dimensional array with example.
 18. Briefly explain categories of functions.
 19. Explain about Arrays of pointers with example.
 20. Explain in detail about Input/output operation on files.
-

D-1791

Sub. Code

21A

DISTANCE EDUCATION

Common for B.A./B.Sc./B.B.A./B.B.A. (Banking)/B.C.A./M.B.A.
(5 year integrated) DEGREE EXAMINATION,
DECEMBER 2023.

Second Semester

Part – I – TAMIL PAPER – II

(CBCS 2018 – 19 Academic year onwards)

Time : Three hours

Maximum : 75 marks

பகுதி அ — (10 × 2 = 20 மதிப்பெண்கள்)

அனைத்து வினாக்களுக்கும் விடையளிக்க.

1. வீரமாமுனிவர் - குறிப்பு வரைக.
2. ஆயர்கள் குழந்தையை எவ்வாறு போற்றினர்?
3. “மதிற்போர்” என்றால் என்ன?
4. நீல பத்ம நாபனின் சிறுகதைகள் இரண்டிகைக் கூறுக.
5. ஐய வினா என்றால் என்ன?
6. பால் எத்தனை வகைப்படும்?
7. நாடகத்மிழ் - குறிப்பு வரைக.
8. மரபுக் கவிதை என்றால் என்ன?
9. சமணர்கள் இயற்றிய அறநூல்கள் யாவை?
10. தமிழில் இணையத்தின் பங்கு யாது?

பகுதி ஆ — (5 × 5 = 25 மதிப்பெண்கள்)

பின்வரும் வினாக்களுக்கு ஒரு பக்க அளவில் விடை தருக.

11. (அ) “சாந்தி உள்ளம் உருகி போற்றி நின்றதனை” - விளக்குக.

(அல்லது)

(ஆ) பண்ணாற்றும் மருந்தால் பாவம் தீர்க்க வந்த காலத்தினை விவரி.

12. (அ) “விமோசனம்” சிறுகதை உணர்த்தும் பெண்களின் நிலையை எடுத்துரைக்க.

(அல்லது)

(ஆ) “கூழை தாங்கிய எருமை” என்பதனை விளக்குக.

13. (அ) பிறமொழிச் சொற்களைத் தமிழில் ஆளும் முறை பற்றி நீவிர் அறிவது யாது?

(அல்லது)

(ஆ) மொழி முதல் எழுத்துக்கள் குறித்து விளக்குக.

14. (அ) நாடகத் தமிழ் வளர்ச்சியில் பம்மல் சந்பந்த முதலியாரின் பங்களிப்பு யாது?

(அல்லது)

(ஆ) மரபுக் கவிதையில் பாரதிதாசனின் முக்கியத்துவம் யாது?

15. (அ) தொலைக்காட்சி தமிழுக்கு ஆற்றிவரும் பங்களிப்பு யாது?

(அல்லது)

(ஆ) தமிழ் வளர்ச்சியில் இணையத்தின் முக்கியத்துவம் பற்றி விளக்குக.

பகுதி இ — (3 × 10 = 30 மதிப்பெண்கள்)

பின்வரும் வினாக்களுக்கு மூன்றனுக்குக் கட்டுரை வடிவில் விடை தருக.

16. நும் பாடப்பகுதியில் அமைந்துள்ள தேம்பாவணி பாடல் கருத்துக்களை தொகுத்துரைக்க.
 17. கம்பன் புறத்திணையில் காணப்படும் “புறத்துறை மகளிர்” எனும் தலைப்பில் கட்டுரை வரைக.
 18. சார்பெழுத்து என்றால் என்ன? அதன் வகைகளை எடுத்துக்காட்டுகளுடன் விளக்குக.
 19. தமிழ்மொழிக்கு சைவ சமயப் பெரியவர்கள் ஆற்றிய தொண்டினை விவரிக்க.
 20. பிற்கால காப்பியங்களில் இடம் பெற்றுள்ள “கம்பராமாயணம்” பற்றி ஒரு கட்டுரை வரைக.
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D-1792

Sub. Code

21B

DISTANCE EDUCATION

**COMMON FOR B.A./B.Sc./B.B.A./B.B.A. (Banking)/B.C.A./
M.B.A. (5 Year Integrated) DEGREE EXAMINATION,
DECEMBER 2023.**

Second Semester

Part I — COMMUNICATION SKILLS – II

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What is meant by code of communication skills?
2. What do you mean by communication skills?
3. What are the three main elements of effective speaking?
4. Mention any four tips to improve speaking skills.
5. What are the types of listening?
6. What are the five stages of interview?
7. Write any two important elements for paragraph writing.
8. What does an editor do in publishing?
9. What is corporate communication?
10. Write any two tips for writing press release.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions, Choosing either (a) or (b).

11. (a) Jot down the whole communication process.

Or

- (b) How do stimulus and response play a major role in communication? Explain.

12. (a) Write in detail about pronunciation etiquette in communication skills.

Or

- (b) 'Phonetic symbols aid in improving one's communication skills' — Elucidate.

13. (a) Write a paragraph on Stress and Intonation.

Or

- (b) Give some self-assessment exercise for improving soft skills.

14. (a) What are the differences between discriminative and comprehensive listening?

Or

- (b) Explain in detail about three modes of communication.

15. (a) How do you write a business proposal email?

Or

- (b) What is the star method of interviewing? Explain.

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. 'Is interference of mother tongue the major barrier for effective communication' – Discuss.
17. Why does phonetics learning become significant for communicative skills? Explain.
18. Write in detail about online presentation tools for presentation skills.
19. Prepare a resume for a new job.
20. You have received a communication for an interview for a job in Wipro. How will you prepare for an interview?

D-1793

Sub. Code

22/13722

DISTANCE EDUCATION

Common for B.A./B.Sc./B.B.A./B.B.A. (Banking)/B.C.A./
M.B.A. (5 Years. integrated) DEGREE EXAMINATION,
DECEMBER 2023.

Second Semester

Part II — ENGLISH PAPER – II

(CBCS 2018 – 2019 Academic Year Onwards / 2021 calendar
year onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. To Whom the Sonnets of Shakespeare addressed?
2. What are the emotions evoked in “Lines Composed upon Westminster Bridge”?
3. To Which pointer does Andrea Del Sarto Compare Himself?
4. Define Soliloquy.
5. What does “Yellow Wood” stand for?
6. Where does the soldier in strange meeting find himself?
7. What does the word “Gitanjali” mean?

8. Why did Shylock hate Antonio?
9. What is the theme of the poem Coromandal Fishers?
10. What is note making?

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Discuss briefly the romantic elements in “Lines composed upon West Minster Bridge”.

Or

- (b) What is the effect of Browning’s dramatic monologue?
12. (a) Bring out the symbolism in the poem “Andrea del Sarto”.

Or

- (b) “Let us sleep now...” what does the ‘sleep’ signify in Wilfred Owen’s “Strange Meeting”?
13. (a) How does Tagore express material desires and ego as main barriers in the path towards God?

Or

- (b) Is Shylock a Villian or victim?
14. (a) Attempt a short note on the morning scene at the seashore with reference to the Poem Coramandel Fishers.

Or

- (b) What does Stephen Spender’s “The Express” Symbolize? Discuss briefly.

15. (a) What is the format of note-making?

Or

- (b) What are steps to organize an essay?

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Elucidate the subject matter and theme of “Beauty is truth”, truth beauty, – that is all ye need to know on earth, and all you need to know”.
17. Justify the title “The Road not taken” as a metaphor of life.
18. Elucidate Tagore’s use of imagery in “Gitanjali” with appropriate language.
19. Make notes of the following passage :

Butterflies can be seen fluttering over flowers in the Himalayas, in the Gangetic plain or deep down in the villages in Tamilnadu. These beautiful creatures are useful pollinators. Their wings are formed of pigments of red yellow, black and white, while the blues, the greens and the metallic iridescent hues are the result of refraction. The patterns on butterfly wings are created by a mass of tiny coloured scales which overlap almost like the tiles on a roof. Their antennae are used primarily to find food and mates. They are covered with microscopic sense organs and moved by basal muscles. Through these, they perceive odours, changes in temperature, humidity in the air and certain other stimuli.

20. Read the following passage and answer the questions given below :

After we got independence, we in India have been trying to raise our standard of living. Though progress has not been as quick as we could have wished, there is no doubt that, in the last twenty-five years, we have been steadily inching our way towards some of our goals, we have almost enough food for our huge population, thanks to the revolution in agriculture. We have built a sound industrial base. We have dethroned hundreds of big and small white elephants – the princes. We have been trying to distribute land more fairly – But with limited success so far. We have also been trying to find employment for our youth – again with only partial success. These and other problems would no doubt become manageable if we could check the steep growth of our population.

- (a) Have living standards in India risen rapidly?
- (b) Who have we been trying to do with only partial success?
- (c) What have we succeeded in doing?
- (d) Have we succeeded in checking the population growth?
- (e) Have we been trying seriously to check it?

D-1908

Sub. Code

13023

DISTANCE EDUCATION

**B.Sc. (Computer Science) DEGREE EXAMINATION,
DECEMBER 2023.**

Second Semester

OBJECT ORIENTED PROGRAMMING AND C++

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define information hiding.
2. What do you mean by a token?
3. Write down the syntax and example to create a class.
4. How can you access a member functions?
5. What do you mean by array of objects?
6. Define inheritance.
7. List out the needs of virtual function.
8. Define template.
9. What do you mean by exception?
10. How do you handle exception in inheritance tree?

SECTION B — ($5 \times 5 = 25$ marks)

Answer ALL questions, Choosing either (a) or (b).

11. (a) What are the features of object oriented programming?

Or

- (b) Describe unformatted I/O operations.

12. (a) Explain briefly different ways to define member functions of a class.

Or

- (b) Discuss about copy constructors.

13. (a) How the OOP supports multiple inheritance? Explain.

Or

- (b) Narrate pure virtual functions with example program.

14. (a) Explain briefly class templates with multiple arguments.

Or

- (b) Describe the concepts of sequential access to a file.

15. (a) List out the mechanisms to handle an exception.

Or

- (b) Explain shortly exception in class templates.

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Discuss in detail about evolution of object oriented language.
 17. Explain call by reference and return by reference.
 18. Narrate about binary operator overloading with neat diagram.
 19. Describe the function templates with multiple arguments.
 20. Illustrate in detail about handling of uncaught exception.
-

D-1794

Sub. Code

31A/13731

DISTANCE EDUCATION

**Common for B.A./B.Sc./B.C.A. DEGREE EXAMINATION,
DECEMBER 2023**

Third Semester

Part I : TAMIL Paper – III

**(CBCS 2018 – 2019 Academic Year Onwards / 2021 Calendar
Year onwards)**

Time : Three hours

Maximum : 75 marks

பகுதி அ — (10 × 2 = 20 மதிப்பெண்கள்)

அனைத்து வினாக்களுக்கும் விடையளிக்கவும்.

1. முல்லைப்பாட்டின் ஆசிரியர் யார்?
2. நாழிகைக் கணக்கரின் பணி யாது?
3. ஐங்குறு நூற்றில் கபிலர் சுட்டும் மரங்களின் பெயர்களை எழுதுக.
4. நற்றிணைப் பாடல்களைத் தொகுப்பித்த அரசன் யார்?
5. சோம்பலோடு இருப்பவர்க்கு எவை கிட்டாதெனக் கருவூர்க் கோசிகனார் கூறுகிறார்?
6. ஆனந்தப் பையுள் துறையை விளக்குக.
7. பாடாண் திணை - குறிப்பு வரைக.
8. திருக்குறளுக்கு வழங்கப்பெறும் வேறு பெயர்கள் யாவை?
9. விமலாதித்தன் யார்?
10. புதினம் - விளக்கம் தருக.

பகுதி ஆ — (5 × 5 = 25 மதிப்பெண்கள்)

பின்வரும் வினாக்களுக்கு ஒருபக்க அளவில் விடை தருக.

11. (அ) தலைவனின் பாசறை அமைப்பினை விளக்குக.

(அல்லது)

(ஆ) தலைமகன் தன் நெஞ்சிற்குக் கூறுவதாக அமைந்த பரணர் பாடற் கருத்துக்களை விளக்குக.

12. (அ) அகநானூற்றுப் பாலைநில வருணனையைச் சேந்தம் பூதனார் பாடல் வழி விளக்குக.

(அல்லது)

(ஆ) சோழன் குளமுற்றுத்துத் துஞ்சிய கிள்ளிவளவனின் சிறப்புகளாக மாறோக்கத்து நப்பசலையார் கூறுவனவற்றை எடுத்துரைக்க.

13. (அ) மலையமான் திருமுடிக்காரியின் வள்ளல் தன்மையைச் சுட்டுக.

(அல்லது)

(ஆ) புறநானூறு காட்டும் கையறு நிலைப் பாடலை நும் பாடப்பகுதி கொண்டு விளக்குக.

14. (அ) அறிவுடைமை குறித்துத் திருவள்ளுவர் கூறுவன யாவை?

(அல்லது)

(ஆ) நான்மணிக்கடிகை சுட்டும் வாழ்க்கை நெறிகளை எழுதுக.

15. (அ) இராசராச சோழன் நாடகத்தில் இடம்பெறும் நாடக உத்திகளை விளக்கி வரைக.

(அல்லது)

(ஆ) சுவடுகள் நாவலில் பார்வதியின் பாத்திரப் படைப்பை ஆராய்க.

பகுதி இ — ($3 \times 10 = 30$ மதிப்பெண்கள்)

பின்வரும் வினாக்களில் மூன்றனுக்குக் கட்டுரை வடிவில் விடை தருக.

16. மூல்லைபாட்டு வெளிப்படுத்தும் தலைவியின் கற்புநிலை மேன்மையைக் கட்டுரையாக்கம் செய்க.
17. நற்றிணை வெளிப்படுத்தும் இயற்கை வருணனைகளைத் தொகுத்துரைக்க.
18. திருக்குறள் வெளிப்படுத்தும் அறக்கோட்பாடுகளை நும் பாடப்பகுதி கொண்டு விளக்கி வரைக.
19. இராசராசசோழன் நாடகத்தின் கதைக் கோப்புச் சிறப்பைக் கட்டுரை வடிவில் எழுதுக.
20. சுவடுகள் நாவலில் பாத்திரப்படைப்பு உருவாக்கத்தினை ஆராய்ந்து கட்டுரை எழுதுக.

D-1795

Sub. Code

31B

DISTANCE EDUCATION

**COMMON FOR B.A./B.Sc./B.C.A. DEGREE EXAMINATION,
DECEMBER 2023.**

Third Semester

Part-I — HUMAN SKILLS DEVELOPMENT – I

(CBCS 2018-19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define Interpersonal Relationship.
2. Define Attitude.
3. What is meant by 'Counselling'?
4. What is Dais Etiquette?
5. Write briefly on self esteem.
6. Give the meaning of 'Leadership'.
7. What is called as positive attitude?
8. Write briefly on goal setting.
9. Give the meaning of 'Anger'.
10. What is 'Stress'?

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Write a note on Interpersonal Behaviour.

Or

- (b) Write on the significance of thinking ahead.

12. (a) Discuss the effects of 'Conflicts'.

Or

- (b) Comment on the different terms of 'Counselling'.

13. (a) Bring out the etiquettes in using mobile phones.

Or

- (b) Write a short note on the types of Habits.

14. (a) Discuss the advantages of Negotiations.

Or

- (b) Discuss the importance of Goal Setting.

15. (a) Discuss the canons of good human relations.

Or

- (b) Write a note on 'dealing with change'.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Discuss in details the merits of good habits.
 17. Explain the characteristics and importance of 'Change'.
 18. Discuss the significance of Self-esteem.
 19. Explain the factors that influence personality.
 20. Write elaborately on the Management of conflicts.
-

D-1796

Sub. Code

32/13732

DISTANCE EDUCATION

**COMMON FOR B.A./B.Sc./B.C.A. DEGREE EXAMINATION,
DECEMBER 2023.**

Third Semester

PART II — ENGLISH — PAPER III

**(CBCS 2018 – 2019 Academic Year Onwards/
2021 Calendar Year Onwards)**

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Who is Ratan? [in 'The Postmaster']
2. Where is the story, 'The Postmaster' set?
3. How did Verger lose his job?
4. Why is Mathilde envious of Madame Forestier?
5. What is the setting of the play, 'The Proposal'?
6. Why does Philip refuse to join the jam business in Uncle James' dream?
7. Why was Pierre pinched? How did he defend himself before judge Gaston?
8. Why could Swami not keep a light burning?

9. Fill in the blanks with the Abstract Nouns formed from the words given in brackets.
- (a) We all love ————— (honest)
- (b) The element has great ————— (strong)
10. What is an Adjective?

SECTION B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) How does Guy de Maupassant treat the danger of martyrdom in 'The Diamond Necklace'?

Or

- (b) What was Albert Foreman's reply to the questions of the bank manager? What does his answer reflect?

12. (a) How do Lomov and Natalya argue over the ownership of Oxen Meadows?

Or

- (b) How does the play, 'The Boy Comes Home' analyse the problems of the generation gap?

13. (a) Why do the vagabonds go back to the bakery after eating the pie in 'The Pie and the Tart'?

Or

- (b) Describe the rapport between Ratan and the Postmaster.

14. (a) How has Swami become a hero?

Or

- (b) Analyse the play, 'The Silver Idol'.

15. (a) Pick out the Adjectives in the following sentences and state their kind :

- (i) I know a funny little man.
- (ii) He is a man of few words.
- (iii) I have told you this many times before.
- (iv) How many marks did you got?
- (v) An empty vessel makes much noise.

Or

- (b) Choose the right verbs from brackets to complete each sentence :

- (i) The thieves (robbed, stole, won) all property from the house.
- (ii) Columbs (discovered, invented, explored) America.
- (iii) The moon (raised, rose, awoke) early.
- (iv) Cocks (sing, caw, crow) in the morning.
- (v) They (hanged, hung, swung) the pictured on the wall.

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

- 16. Describe how Albert Foreman prospered in his business as a tobacconist and newsagent.
- 17. What are the similarities and differences between Jean and Pierre? Explain.

18. Sketch the character of Lomov in 'The Proposal'.
19. Describe the place where you have gone recently on picnic.
20. Fill in the blanks with Adverbs chosen from the list given :

Angrily, badly, brutally, silently, seldom, patiently, loudly, soon, tunefully, noisily

- (a) The child has been _____ treated.
- (b) The choir sang _____.
- (c) The burglar crept _____.
- (d) The minister listened _____ to the complaints of the villagers.
- (e) The children played _____ in the house.
- (f) She _____ comes here now,
- (g) I hope you will _____ be well.
- (h) I was ready when John called _____ for me to come.
- (i) He did _____ in the examination.
- (j) The bull charged _____.
- _____

D-1909

Sub. Code

13033/13233

DISTANCE EDUCATION

B.Sc. (CS)/B.Sc. (CS) (Lateral Entry) DEGREE
EXAMINATION, DECEMBER 2023.

Third Semester

DATA STRUCTURES AND ALGORITHMS

(CBCS 2018-19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — ($10 \times 2 = 20$ marks)

Answer ALL questions.

1. What is an array?
2. Define space complexity.
3. Mention the applications of queue.
4. List out the application of stack.
5. What is mean by degree?
6. What is leaf node?
7. Comment on balanced search tree.
8. What is the role of searching in data structure?
9. State the advantages of quick son.
10. Define tree sort.

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions choosing either (a) or (b).

11. (a) Write a note on primitive data types.

Or

- (b) Explain about two dimensional array representations.

12. (a) What are the operations can be performed on stack? Explain.

Or

- (b) Write a note on double linked list.

13. (a) Discuss about insertion and deletion operations in binary tree.

Or

- (b) Elaborate note on binary search tree.

14. (a) Explain the linear search tree with an example.

Or

- (b) List out the importance of searching.

15. (a) Explain bubble sort with example.

Or

- (b) Illustrate the concept of radix sort.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Describe the various types of data structures.
 17. Explain the necessity of infix to postfix conversion with suitable example.
 18. Discuss about various types of binary trees.
 19. Illustrate the insertion and deletion operations on binary search tree.
 20. Explain selection sort with example.
-

D-1797

Sub. Code

41A/13741

DISTANCE EDUCATION

**Common for B.A./B.Sc./B.C.A. DEGREE EXAMINATION,
DECEMBER 2023.**

Fourth Semester

Part I –TAMIL PAPER – IV

**(CBCS 2018 – 2019 Academic Year onwards/
2021 Calendar Year onwards)**

Time : Three hours

Maximum : 75 marks

பகுதி அ — (10 × 2 = 20 மதிப்பெண்கள்)

அனைத்து வினாக்களுக்கும் விடையளிக்கவும்.

1. வெண்பாவில் பயின்று வரும் தளைகள் யாவை?
2. கண்ணி வகைப் பாடல்கள் எவ்வாறு அமைந்திருக்கும்?
3. அறத்தொடு நின்றல் என்றால் என்ன?
4. அன்பின் ஐந்திணைகளைக் குறிப்பிடுக.
5. அணி இலக்கணம் பேசும் நூலினைக் குறிப்பிடுக.
6. சிலேடை அணி எத்தனை வகைப்படும்? அவை யாவை?
7. தொல்காப்பியத்திற்குப் பாயிரம் எழுதியவர் யார்?
8. பத்துப்பாட்டு நூல்களைக் குறிப்பிடுக.
9. பாண்டியன் பரிசு நூலின் கதைத் தலைவி யார்?
10. இயேசு காவியம் எத்தனை பாகங்களைக் கொண்டது?

பகுதி ஆ — (5 × 5 = 25 மதிப்பெண்கள்)

பின்வரும் வினாக்களுக்கு ஒரு பக்க அளவில் விடை தருக.

11. (அ) ஆசிரியப்பாவின் பொது இலக்கணம் கூறி அதன் வகைகளைச் சுட்டுக.

(அல்லது)

- (ஆ) சிந்துப் பாடலின் இலக்கணம் கூறி அதன் வகைகளை விளக்குக.

12. (அ) ஐந்திணைகளின் கருப்பொருள் குறித்து எழுதுக.

(அல்லது)

- (ஆ) அறத்தொடு நின்றல் நிலையில் தோழியின் பங்கு பற்றி எழுதுக.

13. (அ) உருவக அணியினைச் சான்றுடன் விளக்குக.

(அல்லது)

- (ஆ) நிறுத்தற் குறியினைப் பயன்படுத்தும் முறைகள் பற்றி எழுதுக.

14. (அ) வீரயுகப் பாடல்கள் குறித்து எழுதுக.

(அல்லது)

- (ஆ) குறுந்தொகைப் பாடல்களின் காதற்சிறப்பினை விளக்குக.

15. (அ) பாஞ்சாலி சபதத்தின் தனித்தன்மையை விளக்குக.

(அல்லது)

- (ஆ) பாண்டியன் பரிசு காவியத்தில் வரும் சமூகச் சிந்தனைகளை நிரல்படுத்துக.

பகுதி இ — ($3 \times 10 = 30$ மதிப்பெண்கள்)

பின்வரும் வினாக்களில் மூன்றனுக்குக் கட்டுரை வடிவில் விடை தருக.

16. கலிப்பாவின் பொது இலக்கணம் கூறி வகைகளை விரிவாக எழுதுக.
17. புதுக்கவிதையின் வளர்ச்சிக்குக் குறியீடு எவ்வாறு துணை நிற்கிறது?
18. புறப்பொருள் துறைகளில் கையறுநிலை பெறும் இடத்தினை ஆராய்க.
19. இரட்டைக் காப்பியங்களில் காணலாகும் அறச்சிந்தனைகளை நிரல்படுத்துக.
20. இயேசு காவியத்தின் வழி இறைவனின் அருட்செயலை விளக்குக.

D-1798

Sub. Code

41B

DISTANCE EDUCATION

**COMMON FOR B.A./B.Sc./B.C.A. DEGREE EXAMINATION,
DECEMBER 2023.**

Fourth Semester

Part I — HUMAN SKILLS DEVELOPMENT – II

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What is called communication?
2. What is the goal of a presentation?
3. Will the thinking skill support one to achieve one's target?
4. Write any two styles that have been followed by leaders.
5. What are Hard Skills?
6. Write any two forms of Technical Communication.
7. Write any one features of group discussion.
8. Define Motivation.
9. Give any two characteristics that are attributed to a good leader.
10. Suggest anyone way to arrest stress.

SECTION B — ($5 \times 5 = 25$ marks)

Answer ALL questions, Choosing either (a) or (b).

11. (a) Describe effective communication.

Or

- (b) How do you plan for good presentation of a speech?

12. (a) Write a note on Paternalistic style of leadership.

Or

- (b) Discuss the need for leadership skill.

13. (a) Give the necessity for having Conceptual Skills.

Or

- (b) Discuss the need for Managerial Skills.

14. (a) Discuss some of the procedures to apply Technical Skills.

Or

- (b) Bring out some of the causes for Multi-tasking.

15. (a) Give some time management tips to increase the productivity.

Or

- (b) Discuss some types of stress normally we meet.

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Explain the techniques of counselling.
17. What are the eight easy steps for an effective speech?

18. Does personality development skill play an important role in bringing out one's career achievement?
19. Explain in detail the requirements of understanding skills at societal level.
20. Explain the importance of Organisation Skills.

D-1799

Sub. Code

42/13742

DISTANCE EDUCATION

**COMMON FOR B.A./B.Sc./B.C.A. DEGREE EXAMINATION,
DECEMBER 2023.**

Fourth Semester

PART II — ENGLISH – PAPER IV

**(CBCS 2018 – 2019 Academic Year Onwards/
2021 Calendar Year Onwards)**

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Who is the author of 'Boy who wanted more Cheese'?
2. Who was Lalajee?
3. Write the confusion with which the boy was worrying in 'A Day's Wait'.
4. What have Pickering and Higgins written respectively?
5. Why did Swamy run away from home?
6. After his father threatens to disinherit him if he marries Perdita, what did Florizel do?
7. How does Shylock initially describe his demand for a pound of flesh to Bassanio and Antonio?
8. Why is Romeo exiled?

9. Add Tag Questions :
- (a) None of us knew the answer, ———
 - (b) Use your eyes, ———.
10. Correct the following sentences :
- (a) There is atleast fifty persons waiting outside.
 - (b) Either my sister or my brothers is coming.

SECTION B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Analyse the story 'A Day's Wait'.
- Or
- (b) Write a short summary of 'Boy who wanted more Cheese'.
12. (a) Write the advice given by Jim Corbett to Lalajee after Lalajee has recovered.

Or

- (b) How did the father clear the confusion of his son in 'A Day's Wait'?
13. (a) It has been said that *Pygmalion* is not a play about turning a flower girl into a duchess, but one about turning a woman into a human being. Do you agree?

Or

- (b) How does the structure of the narrative inform the sense of time in Swami's world in *Swamy and Friends*?

14. (a) Discuss Shylock's dramatic function in *The Merchant of Venice*.

Or

- (b) Discuss the resurrection scene in *The Winter's Tale*. Is the apparent miracle real?

15. (a) Discuss the impact caused by Martin Luther King's assassination.

Or

- (b) Expand the proverb – 'All that glitters is not Gold'.

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. What is the message conveyed through the story, 'Little Girls wiser than Man'?
17. Describe the primary ways in which Eliza Doolittle changes in the course of the play, *Pygmalion*.
18. How does Shakespeare treat death in *Romeo and Juliet*?
19. Discuss Portia's character. How is she compared to the men around her? Is Bassanio a worthy husband too her?
20. Give the details on the Do's and Don'ts of Group Discussion.

D-1910

Sub. Code

13043/13243

DISTANCE EDUCATION

B.Sc. (CS)/B.Sc. (CS) (Lateral Entry) DEGREE
EXAMINATION, DECEMBER 2023.

Fourth Semester

JAVA PROGRAMMING

(CBCS 2018-19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. List out the java features.
2. Define Identifier.
3. What do you mean by expression?
4. Write the syntax of the ternary operator.
5. Write down the steps to create an object.
6. How the java supports multiple inheritances?
7. List out the API packages.
8. Define synchronization.
9. What do you mean by Applet?
10. Write down the syntax of adding applet to html file.

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions choosing either (a) or (b).

11. (a) Write short note on WWW.

Or

- (b) Describe about type casting.

12. (a) Explain briefly relational operators.

Or

- (b) Discuss about switch statements with example.

13. (a) Illustrate the steps to be followed for accessing members.

Or

- (b) Write short note on extending interfaces.

14. (a) Explain about naming conversions.

Or

- (b) Describe the concepts of finally statement.

15. (a) Explain concisely to prepare applet writing.

Or

- (b) Write a program for circle and ellipse.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Explain in detail about data types.
17. Explain the following: (a) if..else (b) nested if (c) else if (d) while.

18. Narrate about method overloading.
 19. Describe the mechanisms to create a thread and extending thread class.
 20. Discuss about applet life cycle.
-

D-1911

Sub. Code

13051/13251

DISTANCE EDUCATION

**B.Sc. (CS)/B.Sc. (CS) (Lateral Entry) DEGREE
EXAMINATION, DECEMBER 2023.**

Fifth Semester

OPERATING SYSTEMS

(CBCS 2018–19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. List out the major goals of the operating system.
2. Define OS and mention its functions.
3. What is a resource-allocation graph?
4. What are the conditions under which a deadlock situation may arise?
5. What is the use of cooperating processes?
6. Define race condition.
7. What is the use of Valid-Invalid Bits in Paging?
8. Define Effective Access Time.
9. List the various File Attributes.
10. Define UFD and MFD.

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Define inter process communication and explain its types with neat diagram.

Or

- (b) Write short notes on process management with example.

12. (a) Describe about the concurrency with example.

Or

- (b) Briefly discuss about the semaphore with suitable syntax.

13. (a) Write about the critical regions and monitors.

Or

- (b) Explain the two solutions of recovery from deadlock.

14. (a) Give the basic concepts about paging.

Or

- (b) What is thrashing and explain the methods to avoid thrashing?

15. (a) Write about the file attributes, operations, types and structure.

Or

- (b) Explain about disk scheduling and any of its two algorithms with suitable example.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Explain the various memory hierarchies with neat block diagram.
 17. Describe in detail about the mutual exclusion software and hardware solutions to the problem.
 18. Consider the following page reference string, 7, 0, 1, 2, 0, 3, 0, 4, 2, 3, 0, 3, 2, 1, 2, 0, 1, 7, 0, 1. How many page faults would occur for the following replacement algorithms, assuming three frames that all frames are initially empty?
 19. Explain how paging supports virtual memory, how logical address is translated into physical address.
 20. Discuss in detail about file allocation methods. What are the possible structures for directory?
-

D-1912

Sub. Code

13052/13252

DISTANCE EDUCATION

B.Sc. (CS)/B.Sc. (CS) (Lateral Entry) DEGREE
EXAMINATION, DECEMBER 2023.

Fifth Semester

RELATIONAL DATABASE MANAGEMENT SYSTEMS

(CBCS 2018-19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — ($10 \times 2 = 20$ marks)

Answer ALL questions.

1. Define database.
2. What is data abstraction?
3. What is the role of primary key?
4. What is relational schema?
5. Comment on union.
6. What is join dependencies?
7. Define the term transaction.
8. What is deadlock?
9. What is file organization?
10. How is data organized in tree based index?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL the questions choosing either (a) or (b).

11. (a) Explain data model.

Or

- (b) Write short note on structure of relational databases.

12. (a) Explain enforcing integrity constraints.

Or

- (b) How do view support logical data independence? Explain.

13. (a) Write note on Nested queries.

Or

- (b) Briefly explain triggers and active databases.

14. (a) Write short note on transaction isolation levels.

Or

- (b) Write short note on Buffer management.

15. (a) Briefly explain hash based indexing.

Or

- (b) Write note on Heap files.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Explain E-R model in detail with example.
 17. Briefly explain tuple relational calculus with example.
 18. Describe the Fourth Normal Form.
 19. Illustrate about lock based protocols.
 20. Write about Indexed Sequential Access Method (ISAM).
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D-1913

Sub. Code

13053/13253

DISTANCE EDUCATION

B.Sc. (CS)/B.Sc. (CS) (Lateral Entry) DEGREE
EXAMINATION, DECEMBER 2023.

Fifth Semester

COMPUTER ARCHITECTURE

(CBCS 2018-19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — ($10 \times 2 = 20$ marks)

Answer ALL the questions.

1. Define the term Computer Architecture.
2. What do you mean by Addressing Modes?
3. What do you mean by pipelining?
4. List out the types of pipeline hazards in computer architecture.
5. Give the advantages of VLIW.
6. State the compiler types.
7. What is byte addressable memory?
8. What is the use of cache memory?
9. Define Multiprocessor.
10. What do mean by Multithreading?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL the questions, choosing either (a) or (b).

11. (a) Explain the quantitative principle of computer design.

Or

- (b) Describe the various types of addressing modes.

12. (a) Write a note on Pipelining and Hazards.

Or

- (b) Give a brief note on IP6 Micro Architecture.

13. (a) Discuss static branch prediction with example.

Or

- (b) Illustrate the issues of VLIW architecture.

14. (a) Give a brief note on Memory Technology.

Or

- (b) Draw and explain the memory hierarchy.

15. (a) Write a note on Synchronization.

Or

- (b) Examine the concept of Multithread.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Classify the various instructions sets in computer architecture.
 17. Discuss the concepts of Instruction Level Parallelism.
 18. Describe the mechanism of IA 64 and Itanium Processor.
 19. Explain RAID structure and its different configuration levels.
 20. Illustrate the different memory consistency models.
-

D-1914

Sub. Code

13061/13261

DISTANCE EDUCATION

B.Sc. (CS)/B.Sc. (CS) (Lateral Entry) DEGREE
EXAMINATION, DECEMBER 2023.

Sixth Semester

COMPUTER NETWORKS

(CBCS 2018-19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — ($10 \times 2 = 20$ marks)

Answer ALL the questions.

1. Define Networks.
2. What is called Protocols?
3. Comment on forward error correction.
4. What is Hamming distance?
5. Define selective repeat.
6. Define routing
7. What is mean by unicast?
8. Mention the role of checksum.
9. What is mean by symmetric key?
10. What are transposition techniques?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL the questions choosing either (a) or (b).

11. (a) Explain the types of Transmission modes.

Or

- (b) List out the topologies used in networks and explain it.

12. (a) Briefly explain types of error with example.

Or

- (b) Describe about error detection and error correction.

13. (a) Write short note on circuit switching techniques.

Or

- (b) Explain the concept of datagram.

14. (a) Describe about File Transfer Protocol.

Or

- (b) Write short note on HTTP.

15. (a) Briefly explain about Cryptography.

Or

- (b) Explain the working principles of DES (Data Encryption Standard).

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Explain the OSI reference model with neat diagram.
17. Differentiate between Go-Back-N ARQ and Stop and wait ARQ.

18. Explain Distance vector routing in detail.
 19. Explain about UDP (User datagram Protocol).
 20. Discuss about RSA cryptography.
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D-1915

Sub. Code

13062/13262

DISTANCE EDUCATION

B.Sc. (CS)/B.Sc. (CS) (Lateral Entry) DEGREE
EXAMINATION, DECEMBER 2023.

Sixth Semester

VISUAL BASIC PROGRAMMING

(CBCS 2018-19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — ($10 \times 2 = 20$ marks)

Answer ALL questions.

1. Define Visual Basic.
2. What do you mean by IDE?
3. Define literals.
4. Compare list box and combo box.
5. Comment on global procedure.
6. What is mean by control array?
7. Define MDI.
8. What are menus?
9. Write a note on DAO.
10. What do you mean by ADO?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions choosing either (a) or (b).

11. (a) Write a short note on working with forms.

Or

- (b) Explain the controls in Visual Basic.

12. (a) Illustrate the syntax and flow diagram of entry loop with example program.

Or

- (b) Demonstrate the option button and check box.

13. (a) Explain any five string function available in VB.

Or

- (b) Write a note on Arrays and its types.

14. (a) Describe dialog box with example.

Or

- (b) Write a note on MDI Form.

15. (a) Explain the different types of record set available in ADO.

Or

- (b) Describe the concept of OLE DB.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Describe the basic properties of window.
 17. Discuss the various branching statements in VB.
 18. Give a brief note on date and time functions in VB.
 19. Explain the steps involved in menu creation.
 20. Describe the steps involved in connecting to database using ActiveX Data Object.
-

D-1916

Sub. Code

13063/13263

DISTANCE EDUCATION

B.Sc. (CS)/B.Sc. (CS) (Lateral Entry) DEGREE
EXAMINATION, DECEMBER 2023.

Sixth Semester

SOFTWARE ENGINEERING

(CBCS 2018-19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — ($10 \times 2 = 20$ marks)

Answer ALL questions.

1. What are the characteristics of the software?
2. List out the fundamental activities of a software process.
3. What do you mean by data modeling?
4. What are the elements of analysis model?
5. Define design process.
6. Draw the diagram of user interface design.
7. Difference between black box and white box testing.
8. List out the metrics for process.
9. How do you identify a risk?
10. Define risk mitigation.

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions choosing either (a) or (b).

11. (a) Write short notes on:

- (i) Software Engineering layers.
- (ii) Five activities of process framework.

Or

(b) Explain spiral model with neat diagram.

12. (a) Briefly illustrate on requirements engineering task.

Or

(b) Discuss the elements of the analysis model.

13. (a) Describe software quality guidelines and attributes.

Or

(b) Briefly explain the architectural styles.

14. (a) Discuss shortly testing strategy.

Or

(b) Describe the measurement principles.

15. (a) Explain briefly risk projection.

Or

(b) Discuss about Garvin's Quality Dimensions.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Explain the following:
 - (a) The waterfall model
 - (b) The incremental process model
 17. Discuss in detail about flow oriented modeling.
 18. Explain in detail about user interface analysis and design.
 19. Describe about metrics for software quality and software process.
 20. Illustrate the concept of ISO 9000 quality standards.
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D-5120

Sub. Code

11A

DISTANCE EDUCATION

Common for B.A./B.Sc./B.B.A./B.B.A. (Banking)/B.C.A./ M.B.A.
(5 Year Integrated) DEGREE EXAMINATION,
MAY 2022.

First Semester

Part I : TAMIL PAPER –I

(CBCS 2018 – 19 Academic Year onwards/2021 Calendar Year
onwards)

Time : Three hours

Maximum : 75 marks

பகுதி அ — (10 × 2 = 20 மதிப்பெண்கள்)

அனைத்து வினாக்களுக்கும் விடையளிக்க.

1. பாஞ்சாலியின் புகழைக் காக்க கிருஷ்ணன் கொடுத்தது யாது?
2. கோபாலனின் குழலைக் கேட்டப் பசுகள் என்ன செய்தன?
3. நெஞ்சில் குடியிருக்கும்... என்னும் பாடல் இடம்பெற்ற திரைப்படம் எது?
4. 'கண்ணன் என் விளையாட்டுப் பிள்ளை' எனப் பாடியவர்?
5. பிறைநிலவின் புன்னகையைக் கவிதையாகப் பாடிய கவிஞர்?
6. காதலி கண்ணில் மை தீட்டாமைக்கு அப்துல்ரகுமான் கூறும் காரணத்தை எழுதுக.
7. 'மூவேந்தர் காப்பியம்' எனப் பாராட்டப்படும் காப்பியம் எது?
8. மந்திரப் படலம் – விளக்கம் தருக.

9. 'சீறத்' என்பதன் பொருள் யாது?

10. வீரமாமுனிவர் இயற்றிய இரண்டு நூல்களைக் குறிப்பிடுக.

பகுதி ஆ — ($5 \times 5 = 25$ மதிப்பெண்கள்)

பின்வரும் வினாக்களுக்கு ஒரு பக்க அளவில் விடை தருக.

11. (அ) சூரிய நிறக் கண்ணனைக் கண்ணதாசன் எங்ஙனம் பாராட்டுகிறார்?

(அல்லது)

(ஆ) தொழிலின் சிறப்புகளைப் பட்டுக்கோட்டையார் எங்ஙனம் எடுத்துரைக்கிறார்?

12. (அ) பாரதியார் 'உலக வழக்கம்' எனக் குறிப்பிடுவது எதனை? விளக்குக.

(அல்லது)

(ஆ) 'சர்ப்ப யாகம்' கவிதையின் கருத்துக்களைச் சுருக்கி எழுதுக.

13. (அ) நோய்க்கு அறிகுறிகளாக நாமக்கல் கவிஞர் எவற்றைக் கூறுகிறார்?

(அல்லது)

(ஆ) மீராவின் கவிதைகள் தரும் கருத்துக்களை எழுதுக.

14. (அ) வாயில் காவலர்க்குத் தன்வரவினைக் கண்ணகி எங்ஙனம் உரைத்தாள்?

(அல்லது)

(ஆ) தசரதனின் அமைச்சர்கள் எங்ஙனம் மகிழ்ந்ததாகக் கம்பர் பாடுகிறார்?

15. (அ) கன்னித்தாயும் சூசையும் ஆயர்களை அழைக்கக் காரணம் யாது? விளக்குக.

(அல்லது)

(ஆ) வீரமாமுனிவரின் தமிழ்ப் பற்றைத் தேம்பாவணி வழி விவரிக்க.

பகுதி இ — (3 × 10 = 30 மதிப்பெண்கள்)

பின்வரும் வினாக்களில் மூன்றனுக்குக் கட்டுரை வடிவில்
விடை தருக.

16. கண்ணன் செய்யும் குறும்புகளைப் பாரதியார் பாடுமாற்றை விவரிக்க.
 17. பாரதிதாசன் உலகிற்குக் காட்டும் வழியை நும் பாடப் பகுதியால் எடுத்துரைக்க.
 18. மோசிகீரனாரைக் கவிஞர் ஞானக்கூத்தன் சிறப்பிக்குமாற்றை விளக்குக.
 19. பாண்டிமாதேவி கண்ட கனவினால் விளைந்தவைகளை விளக்கி எழுதுக.
 20. ஈத்தங்குலை வரவழைத்த படலச் செய்திகளை எடுத்துரைக்க.
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D-5121

Sub. Code

11B

DISTANCE EDUCATION

Common for B.A./B.Sc./B.B.A./B.B.A. (Banking)/B.C.A./ M.B.A.
(5 Year Integrated) DEGREE EXAMINATION,
MAY 2022.

First Semester

Part I – COMMUNICATION SKILLS – I

(CBCS – 2018-19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What are the elements involved in communication process?
2. Write any two importance of communication.
3. How does intonation help for developing the oral communication?
4. Write any two steps that is involved for preparing of speech.
5. What are the types of oral communication?
6. How do the words and phrases play a main role for effective written communication?
7. What are the main points to be kept in mind while writing the official letter?

8. What is considered as 'sentence formation'?
9. How will you prepare Curriculum Vitae effectively for a job?
10. Mention at least two differences between verbal communication and non-verbal communication.

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Write a short note on the principle of effective communication.

Or

- (b) How does non-verbal communication lead to develop verbal communication in human beings?

12. (a) Bring out the importance of gesture in oral communication.

Or

- (b) Is tone and intonation the same thing? Discuss.

13. (a) What are the eight steps of preparing a speech?

Or

- (b) What are the challenges encountered by a good speaker? How does he/she rectify it while speaking?

14. (a) State some expressions of non-verbal communication.

Or

- (b) Write an application for the post of Post Graduate English Teacher in a school.

15. (a) Write a report for 'Sports Day Celebration' at your college.

Or

- (b) What are behavioural – based interview questions?

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. What are the seven barriers of effective communication?
17. What are the important parts of speech preparation? Explain.
18. How do you demonstrate written communication skills?
19. Why does 'Outline Layout' play the key role for preparing a paragraph? State some reasons.
20. Differentiate topic-based group discussion with Case-study-based group discussion.
-

D-5122

Sub. Code

12

DISTANCE EDUCATION

(Common for : B.A./B.Sc./B.B.A./B.B.A.(Banking)/
B.C.A./M.B.A.(5 Yrs Integrated) DEGREE EXAMINATION,
MAY 2022.

First Semester

Part II — ENGLISH PAPER – I

(CBCS 2018 – 2019 Academic Year Onwards/2021 Calendar
Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Why does C.V. Raman calls water the elixir of life?
2. Why did Mrs. Packletide decide to hunt down a tiger?
3. How does a tiger become a man eater?
4. How does C.E.M. Joad define civilization?
5. What message is conveyed by J.B.S. Haldane in “Food”?
6. What are the blessings of our civilization?
7. What are the effective treatments for drug addiction?
8. State the reasons why our body requires food.
9. Lord Hardinge supported which movement?
10. How does the author, Carl Sagan, Concludes about human nature?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) What is the irony in Mrs. Packletide's "Tiger"?

Or

- (b) How does Catharine M. Willson react to the cat?

12. (a) Why does A.G. Gardiner call letter – writing a lost art?

Or

- (b) What are the major defects of our civilization according to CEM Joad?

13. (a) Discuss the role played by Gandhi in South Africa.

Or

- (b) List out the drug-related health disorders.

14. (a) Rewrite as directed :

- (i) He said "I live in the city center" (Change to indirect)
- (ii) He said he was going out. (Change to direct)
- (iii) Anil said he had finished. (change to indirect)
- (iv) She said, "I arrived before you". (Change to indirect)
- (v) Helen said, "I am going to call Alan". (Change to indirect)

Or

(b) Fill in with articles :

- (i) _____ Nile is in Egypt, isn't it?
- (ii) Where are _____ boys?
- (iii) Do you want _____ orange?
- (iv) How far is _____ sun away from _____ earth?

15. (a) Write a precise of the given passage :

Earthquake is the deadly enemy of mankind. Earthquake strikes all without a distinction of nationality or political affiliation. The power of a quake is greater than that of any man-made weapon of destruction. An earthquake strikes mankind without a warning. A modern city when struck is reduced to a rubble. A quake strikes plains, seas and mountains causing all round destruction. The quake struck Lisbon in 1755 killing 450; Peru in 1970 killing 50,000 Alaska in 1968 moving it 80 feet into the Pacific ocean. Scientists are trying to find out means to combat earthquakes and they are able to predict atleast where the earth quake will hit so that precaution can be taken to save man and property from destruction. As the number of words in the rough draft is more than required we shall have to reduce it. Further without reducing the ideas.

Or

(b) Dialogue writing :

Sarita is being interviewed for the job of a teacher in a school. Write the dialogues between Sarita and the interviewer.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. What is the theme of the passage ‘Mrs. Pack Letide’s Tiger’?
 17. Illustrate the concept of “The Cat” by Catharine M. Willson.
 18. What is the theme of the essay “Our Civilization”?
 19. Explain how A.G. Gardiner goes on the show how good letter is written?
 20. Describe the bravery of Haria and Narwa.
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D-5228

Sub. Code

13013

DISTANCE EDUCATION

B.Sc. DEGREE EXAMINATION, MAY 2022.

First Semester

Computer Science

PROGRAMMING IN C

(CBCS 2018-19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — ($10 \times 2 = 20$ marks)

Answer ALL questions.

1. What are identifiers? Give example.
2. How will you define symbolic constants?
3. Write the precedence of arithmetic operators.
4. How will you terminate a loop?
5. Illustrate declaring and initializing arrays.
6. How will you read and write character?
7. How will you access the member of structure?
8. List the operators for pointer.

9. What are the different modes of opening a file in C?
10. Define File. What are its types?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Tabulate the shift operators and give examples.

Or

- (b) Write a C program to read and write strings.

12. (a) Briefly explain about 'for' looping structure with suitable example.

Or

- (b) Write a C program to subtract two given matrices A and B of size (3×3).

13. (a) Define function. How will you declare and call user defined function? Give example.

Or

- (b) Write a C program to concatenate two given strings.

14. (a) Define is structure. Illustrate the use of structure within structure.

Or

- (b) How will you perform pointer increments? Explain. Give example.

15. (a) Write short note on : Random Access File.

Or

- (b) Write short note on : Macro substitution.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Explain about type conversion in expressions. Give example.
 17. Write a C program to illustrate array of structures.
 18. Explain about the Nested 'if' structure with suitable example.
 19. Write a C Program to reverse an array using pointers.
 20. Write a C program to open, write 'Distance Education' and close text file.
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D-5123

Sub. Code

21A

DISTANCE EDUCATION

**COMMON FOR B.A./B.Sc./B.B.A./B.B.A. (Banking), B.C.A./
M.B.A. (5 Years Integrated) DEGREE EXAMINATION,
MAY 2022.**

Second Semester

PART I : TAMIL PAPER – II

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

பகுதி அ — (10 × 2 = 20 மதிப்பெண்கள்)

அனைத்து வினாக்களுக்கும் விடையளிக்க.

1. தேம்பாவணி – குறிப்பு வரைக.
2. ‘வான வீதியில்’ சிறுகதையின் ஆசிரியர் பெயரைக் குறிப்பிடுக.
3. ‘பாசிநிலை’ – திணை விளக்கம் தருக.
4. அளபெடை என்றால் என்ன?
5. எண்ணளவை ஆகுபெயர் – விளக்கம் தருக.
6. “எங்கள் வாழ்வும் எங்கள் வளமும் மங்காத தமிழென்று சங்கே முழங்கு” என்றவர்?
7. தமிழில் வெளிவரும் ‘வார இதழ்கள்’ இரண்டினைக் குறிப்பிடுக.
8. சிம்பொனி இசையமைத்த தமிழர் யார்?
9. பண்பலை வானொலி என்றால் என்ன?
10. ‘தாண்டக வேந்தர்’ எனப் போற்றப்படும் சைவக் குரவர்?

பகுதி ஆ — ($5 \times 5 = 25$ மதிப்பெண்கள்)

பின்வரும் வினாக்களுக்கு ஒரு பக்க அளவில் விடை தருக.

11. (அ) சாந்தி கேட்ட வேத உரையை விளக்கி எழுதுக.

(அல்லது)

(ஆ) ஆயர்கள் குழந்தையைப் போற்றி வணங்கியதை விவரிக்க.

12. (அ) முதல் விமானப் பயணத்தின் அனுபவங்களை நீலபத்மநாபன் எங்ஙனம் விவரித்துள்ளார்?

(அல்லது)

(ஆ) இராமன் புரிந்த கன்னிப்போர் குறித்து இயம்புக.

13. (அ) முதல் எழுத்துக்களின் வகைகளை விளக்கி வரைக.

(அல்லது)

(ஆ) வினாக்கள் எத்தனை வகைப்படும்? அவற்றை விளக்கி வரைக.

14. (அ) புரட்சிக் கவிஞரின் தமிழ்ப்பற்றை நும் பாடப்பகுதியால் விளக்கி வரைக.

(அல்லது)

(ஆ) கவியரசு கண்ணதாசனின் திரைப்பாடல்கள் குறித்துக் கட்டுரைக்க.

15. (அ) திருநாவுக்கரசரின் பக்தித் திறத்தைப் பாராட்டியுரைக்க.

(அல்லது)

(ஆ) மக்கள் வாழ்வியலில் தொலைகாட்சிப் பெறும் முக்கியத்துவத்தை எடுத்துரைக்க.

பகுதி இ — ($3 \times 10 = 30$ மதிப்பெண்கள்)

பின்வரும் வினாக்களில் மூன்றனுக்குக் கட்டுரை வடிவில் விடை தருக.

16. ஆயர்கள் குழந்தை ஏசுவைப் போற்றி மகிழ்ந்ததை விளக்கி வரைக.
17. போர்க்களச் செய்தித் தொடர்பைக் கம்பராமாயணம் எடுத்துரைக்குமாற்றை எழுதுக.
18. தமிழின் சொல்லமைப்புச் சிறப்புக்களை நும்பாடப்பகுதியால் விரிந்துரைக்க.
19. தமிழ்க் கவிதைகளும் திரையிசையும் – கட்டுரை வரைக.
20. சைவமும் தமிழும் குறித்துப் பெரியபுராணம் வழிக் கட்டுரைக்க.

D-5124

Sub. Code

21B

DISTANCE EDUCATION

Common for B.A./B.Sc./B.B.A./B.B.A. (Banking)/B.C.A./
M.B.A. (5 Years Integrated) DEGREE EXAMINATION,
MAY 2022.

Second Semester

Part I – COMMUNICATION SKILLS – II

(CBCS – 2018-19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Which stimuli is the best to induce communication skills among the students?
2. Which exercise gives positive responses to the communication skills?
3. Write any two guidelines for effective communication skills.
4. Mention any two uses of stress and tone for improving speaking skills.
5. Define phonetics.
6. What are the language skills that are significant for the students?
7. What is topic sentence in paragraph writing?

8. Write any two important qualities for creative writers.
9. Why do Newsletters play a major role in organization?
10. Why are interviewing skills important?

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Does communication skill tasks act as stimuli and bring the desired responses among the students? Write down the various stimuli and responses of the students during the communication skills activity.

Or

- (b) How does code and content facilitate in improving the communication skills?
12. (a) Write a short note on :
 - (i) Tone
 - (ii) Stress
 - (iii) Intonation
 - (iv) Air-stream mechanism

Or

- (b) In what way does IPA help to improve the communication skills? Explain.
13. (a) How do you identify the silent letters in English? Write down the rules to be followed while pronouncing such words.

Or

- (b) What are the skills that get developed while involving in the language exercises like reading comprehension, dialogue writing, and proverb expansion writing.

14. (a) What are the types of listening? Explain.

Or

(b) Explain the role of sender, medium and receiver in a communication process.

15. (a) How do you write an effective business proposal in a letter to an organization? Explain.

Or

(b) What are the five stages of an interview?

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. How does mother tongue facilitate the learning of a second language? Discuss.

17. Why is phonetics important for second language learning? Give detailed analysis.

18. Detail the making of a presentation using Power Point Slides.

19. Write in detail about conversation skills and its mode.

20. What is the role of an editor and how do editors add value in the publishing process?

D-5125

Sub. Code

22

DISTANCE EDUCATION

Common for B.A./B.Sc./B.B.A/B.B.A. (Banking)/B.C.A./
M.B.A. (5 Years Integrated), DEGREE EXAMINATION,
MAY 2022.

Second Semester

Part II – ENGLISH PAPER — II

(CBCS 2018 – 19 Academic Year Onwards/
2021 Calendar Year onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What is the structure of a Shakespearean Sonnet?
2. What is the tone of “Lines composed upon west Minster Bridge”?
3. Define Dramatic monologue.
4. Who is the king mentioned in “Andrea del Sarto”?
5. What does Robert Frost mean by “Worn them really about the same”?
6. Why does the narrator call his friend a “Strange friend”?
7. What is the main theme of Gitanjali?

8. How does shylock describe his demand for a pound of flesh to Bassano and Antonio at first?
9. Which is sweeter than the sands at the full moon in the poem Coramandel Fishers?
10. Define Note-making.

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, Choosing either (a) or (b).

11. (a) Bring out the picture of London in “Lines composed upon west Minster Bridge”.

Or

- (b) Bring out the final Tone of the poem “Andrea del Sarto”.

12. (a) What is the theme of the poem “The Road not taken”?

Or

- (b) Briefly attempt a note on the relationship between the two speakers in “Strange meeting”.

13. (a) How does achieve humanization of the divine in his poetry?

Or

- (b) Who is the real hero of merchant of Venice?

14. (a) What are the problems faced by the fishermen?

Or

- (b) How does The Express offer a sharp contrast to the traditional nature poems?

15. (a) What are the steps in note-making?

Or

- (b) Bring out the purposes of a report.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions

16. “Beauty is truth, truth beauty – that’s all

Ye know on earth, and all ye need to know” – Discuss how Keats arrives at this conclusion in “Ode on a Grecian Urn”.

17. Discuss the dilemma faced by the poet in the poem, “The Road not taken”. What is the relevance of that dilemma in real life?

18. Elucidate Tagore’s use of imagery in ‘Gitanjali’ with appropriate examples.

19. Make notes of the following passage:

Reading skills have dominated the English Language learning situation in India. The main reason for this is that opens avenues of knowledge for all disciplines of study by giving access to books and journals. Proficiency in reading contributes to one’s intellectual development.

Apart from helping one gain academic excellence, reading introduces many to a world of thought and fancy. It widens their horizon and gives them an edge over others in social and professional settings. Another advantage of reading is that it exposes readers to good style and rich vocabulary, which have a positive impact on communicative competence. For an alert reader, it is a natural way of assimilating language use and usage.

20. Read the following passage and answer the questions give below:

Up to the time of the illness that took away my sight and hearing, I lived with my father and mother in a tiny house. It had one large square room and another smaller one in which the servant slept. The house was completely covered with roses and other climbing plants, the favourite home of birds and bees. The beginning of my life was simple and much the same as every other little life. I came, I saw, I conquered, as the first baby in the family always does. There was the usual amount of talk about a name for me. At last my mother's advice was accepted and I was called Helen. These happy days did not last long. One short spring, musical with the song of birds, one summer rich in fruit and roses, one autumn of red and gold passed by and left their gifts at the feet of an eager and delighted child. Then in the gloomy month of February 1882, came the illness which closed my eyes and ears and I sank into a state of unconsciousness. The doctor thought that I could not live, but early one morning I became conscious again. My family celebrated that morning, but no one, Not even the doctor, knew that I would never see or hear again. Then she came - my teacher, Ann Sullivan – and she set my spirit free.

- (a) Describe Helen Keller's house.
- (b) What is the meaning of 'I came, I saw, I conquered as the first baby in the family always does'?
- (c) How does Helen describe the seasons?
- (d) How was her sickness felt at home?
- (e) What were the consequences of her illness?

D-5229

Sub. Code

13023

DISTANCE EDUCATION

B.Sc. DEGREE EXAMINATION, MAY 2022.

Second Semester

Computer Science

OBJECT ORIENTED PROGRAMMING AND C++

(CBCS 2018-19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. What is object and classes?
2. Define Inheritance.
3. What is Encapsulation?
4. What do you mean by polymorphism?
5. Explain Data Conversion.
6. What is constructor?
7. Define array of pointers to objects.
8. What are the uses of Inline Function?

9. How do you handle multiple Exception Handling?
10. What are the types of Exception Handling in C++?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL the questions by choosing either (a) or (b).

11. (a) Explain the Evolution of Object-Oriented Language.

Or

- (b) Detail about Object Oriented Programming Concepts.

12. (a) What are Inline Function? Why they are used? Explain with suitable examples.

Or

- (b) What are the different types of constructors? Explain it.

13. (a) Explain the different types of Inheritance with diagram.

Or

- (b) What is Friend function and why it is required in Operator overloading.

14. (a) Explain in detail about class template with suitable diagram.

Or

- (b) Illustrate the Input/output file with stream class.

15. (a) Write a detail in about Exception Handling Mechanism.

Or

- (b) Write down a detailed C++ program to demonstrate the use of fly, catch, throw and nested try.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Elaborate the concept of Object Oriented Paradigm.
17. Describe about class and objects with suitable examples.
18. Explain the Concept of Polymorphism and its types.
19. Discuss about generic Programming with templates.
20. When do we need multiple catch blocks for a single try block? Give an example.
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D-5126

Sub. Code

31A

DISTANCE EDUCATION

**COMMON FOR B.A./B.Sc./B.C.A DEGREE EXAMINATION,
MAY 2022.**

Third Semester

Part I : TAMIL PAPER — III

**(CBCS 2018-19 Academic Year onwards/
2021 Calendar Year onwards)**

Time : Three hours

Maximum : 75 marks

பகுதி அ — $(10 \times 2 = 20)$ மதிப்பெண்கள்

அனைத்து வினாக்களுக்கும் விடையளிக்க.

1. முல்லைப்பாட்டு எத்தனை அடிகளால் ஆனது?
2. ஆற்றுப்படை நூல்களைப் பட்டியலிடுக.
3. பரணர் பாடியப் பாடல்களின் எண்ணிக்கையைத் தருக.
4. உடன்போக்கு – விளக்கம் தருக.
5. அகநானூற்று நூலின் எண் பகுப்பு முறையில் திணைகளை எழுதுக.
6. புறப்பாட்டு எனச் சிறப்பிக்கப்படும் சங்க இலக்கியத்தைக் கூறுக.
7. ‘உலகப் பொதுமறை’ எனப் போற்றப்படும் அற நூல் யாது?
8. நான்மணிக்கடிகை எந்நூல் கருத்துக்களை ஒத்திருக்கின்றது?
9. குந்தவையின் காதலன் பெயரைக் குறிப்பிடுக.
10. ‘சுவடுகள்’ நாவலின் தலைமை மாந்தர்களின் பெயர்களைச் சுட்டுக.

பகுதி ஆ — ($5 \times 5 = 25$ மதிப்பெண்கள்)

பின்வரும் வினாக்களுக்கு ஒரு பக்க அளவில் விடை தருக.

11. (அ) முல்லைப்பாட்டு விவரிக்கும் பாசறை அமைப்புக் குறித்த செய்திகளை எழுதுக.

(அல்லது)

(ஆ) சிவலிங்க ராஜா உரையின் தன்மைகளைத் தொகுத்துரைக்க.

12. (அ) தலைமகன் தன் நெஞ்சிற்குக் கூறுவதாக அமைந்த பாடல்களின் கருத்துக்களை எடுத்துரைக்க.

(அல்லது)

(ஆ) வரைவு நீட்டித்த வழித் தலைமகள் தோழிக்குச் சொல்லியது யாது? விவரிக்க.

13. (அ) வினைமுற்றி மீண்டுவந்த தலைவன் மழையை எங்ஙனம் வாழ்த்தினான்?

(அல்லது)

(ஆ) அகநானூற்றால் அறியவரும் வரலாற்றுச் செய்திகளை எழுதுக.

14. (அ) வள்ளுவர் உரைக்கும் அறிவுடையார் குறித்த செய்திகளை விவரிக்க.

(அல்லது)

(ஆ) யார் யாருக்குத் தூக்கம் வராது? நான்மணிக்கடிகை கூறுமாற்றை எழுதுக.

15. (அ) இராசராசசோழன் நாடகக் கதைக்கோப்பைச் சுருக்கி வரைக.

(அல்லது)

(ஆ) சுவடுகள் நாவலின் கதைமாந்தர் இயல்புகளை விரித்துரைக்க.

பகுதி இ — (3 × 10 = 30 மதிப்பெண்கள்)

பின்வரும் வினாக்களில் மூன்றனுக்குக் கட்டுரை வடிவில் விடை தருக.

16. பரணர் பாடல்கள் வழி அறியலாகும் வரலாற்றுச் செய்திகளைத் தொகுத்துரைக்க.
17. பருவம் கண்டு வருந்திய தலைவியின் புலம்பல்களைக் கட்டுரைக்க.
18. சோழன் குளமுற்றுத்துத் துஞ்சிய கிள்ளிவளவனை நப்பசலை புகழுமாற்றை விவரிக்க.
19. வாழ்க்கைத் துணை நலம் என்னும் அதிகாரத்தின் கருத்துக்களைத் தொகுத்துரைக்க.
20. இராசராசச்சோழன் நாடகப் பாத்திரப் படைப்புகள் குறித்து விரிந்துரைக்க.

D-5127

Sub. Code

31B

DISTANCE EDUCATION

**Common for B.A./B.Sc./B.C.A. DEGREE EXAMINATION,
MAY 2022.**

Third Semester

PART – I : HUMAN SKILLS DEVELOPMENT – I

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What are the merits of good habits?
2. What is meant by thinking ahead?
3. Write any two key factors for influencing personality.
4. Why self-concept is important?
5. Mention the types of goal setting skills.
6. Define negotiating skills.
7. Who is called as a leader?
8. What are the different types of counselling?
9. How can you develop human skill relations?
10. What are the causes for anger?

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) What are the features of interpersonal behaviour?

Or

- (b) Give some key ideas for developing personality.

12. (a) Write a note on etiquettes in using mobile.

Or

- (b) Write some dais etiquettes.

13. (a) What are the different types of decision making skills? Explain briefly.

Or

- (b) How can you create ways to develop positive attitudes among others?

14. (a) Why leader is necessary?

Or

- (b) When do we need counselling?

15. (a) Write a short note on management of conflicts.

Or

- (b) What are the consequences of stress and mention some ways to overcome?

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE of the following.

16. Explain habits, types of merits of good habits.
 17. Write a note on the following:
 - (a) Self-esteem
 - (b) Self-efficacy
 18. Write an essay on decision making skills.
 19. Write in detail on attitudes and its importance.
 20. Explain briefly about stress and its types.
-

D-5128

Sub. Code

32

DISTANCE EDUCATION

**COMMON FOR B.A./B.Sc./B.C.A. DEGREE EXAMINATION,
MAY 2022.**

Third Semester

Part – II : ENGLISH – Paper — III

**(CBCS 2018 – 2019 Academic Year Onwards/2021 Calendar
Year Onwards)**

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What is disgraceful, according to Swami's father in the short story "A Hero"?
2. What is the occupation did the verger take up after resigning from the church?
3. What is the moral of the story "The Proposal"?
4. How does Aunt Emily Character describe in "The boy comes home"?
5. What is the theme of "Progress"?
6. What is the only one fault that Pierre finds with the eel pie?
7. Who is the author of 'Reunion' play?
8. Define noun with an example.

9. Identify the parts of speech for the underlined words.

(a) Health is wealth.

(b) He is very impatient.

10. Give an example for descriptive writing.

PART B — ($5 \times 5 = 25$ marks)

Answer the following questions, choosing either (a) or (b).

11. (a) What desperate attempts did Swami make to escape from his father?

Or

(b) How did Matilda manage a new dress and jewellery for the ball?

12. (a) What are the conflicts between Philip and uncle James in “The Boy Comes Home”?

Or

(b) How does Corrie intend to revolutionize warfare?

13. (a) Sketch the character Yassin in ‘The Refugee’.

Or

(b) Write a note on the characters Jean and Pierre.

14. (a) Describe redemption and forgiveness are the major themes in “A king of Justice”.

Or

(b) Write a short note on the control idea of “Reunion” by W.St. Joh Tayleur.

15. (a) Complete the sentences with adverbs :
- (i) I am going to tell you something very important, so please listen _____.
 - (ii) Ann! I need your help _____.
 - (iii) I am tired this morning. I did not _____ last night.
 - (iv) He works _____ all day.
 - (v) She sings _____ enough.

Or

- (b) Illustrate noun and its types.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE of the following.

- 16. Write an essay on father and son relationship in the story “A Hero”.
- 17. Where is situational irony in the “The Necklace” and how does this convey the author’s message?
- 18. Justify the title of the play, “The Proposal”.
- 19. Write an essay on Partriotic feelings to four friends in “Reunion”.
- 20. Write an essay on “Modern Techniques in mobile – Phone”.

D-5230

Sub. Code

13033/13233

DISTANCE EDUCATION

B.Sc. (Computer Science)/ B.Sc. (CS) (Lateral Entry) DEGREE
EXAMINATION, MAY 2022.

Third Semester

DATA STRUCTURES AND ALGORITHMS

(CBCS 2018-2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — ($10 \times 2 = 20$ marks)

Answer ALL questions.

1. Define: Time Complexity.
2. Define: One Dimensional Array.
3. What will be the basic principle of Stack?
4. In which way the circular queue will differ from queue?
5. Define: Tree and subtree.
6. List out any two hashing techniques.
7. What are the advantages of binary searching?
8. Enumerate the searching techniques.

9. What is meant by Sorting?
10. List any two sorting algorithms with their working principle.

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions by choosing either (a) or (b).

11. (a) What will be the reason for initialing an Array? Describe with the concept of Array Initialization.

Or

- (b) Analyzing the different types of Data Structures.
12. (a) Describe about PUSH and POP operation in stack with example.

Or

- (b) List out the applications of Queues with an example.
13. (a) Illustrate the insertion and deletion operations in Binary Search tree.

Or

- (b) Describe: Hashing Techniques with example.
14. (a) Describe the necessity of Linear search in order to find an element in list.

Or

- (b) How do you perform a Sorting? List out the procedure.

15. (a) Write an algorithm for Radix Sort. Explain.

Or

- (b) What is the principle of Tree sort and give an example.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Explain in detail about the characteristics of the Arrays and the different dimensions.
17. Illustrate the Linked List representations with example.
18. Explain in detail about the procedure for Binary Tree Traversing with an example.
19. Explain the Binary Search algorithm with example and analyze its time complexity.
20. Write the algorithm for insertion sort and Bubble sort with examples and discuss their complexities.
-

D-5129

Sub. Code

41A

DISTANCE EDUCATION

**Common for B.A./B.Sc./B.C.A. DEGREE EXAMINATION,
MAY 2022.**

Fourth Semester

Part I : TAMIL PAPER — IV

(CBCS 2018-19 Academic Year onwards)

Time : Three hours

Maximum : 75 marks

பகுதி அ — (10 × 2 = 20 மதிப்பெண்கள்)

அனைத்து வினாக்களுக்கும் விடையளிக்க.

1. யாப்பின் உறுப்புகளைக் குறிப்பிடுக.
2. அசை எத்தனை வகைப்படும்?
3. திணை - குறிப்பு வரைக.
4. வரைவு கடாதல் பற்றி விளக்குக.
5. ஆநிரை கவர்தல் எப்புறத்திணைக்குரியது?
6. 'தற்குறிப்பேற்றம்' என்ற அணியின் முக்கியத்துவம் யாது?
7. தொல்காப்பிய அதிகாரப் பகுப்புக் குறித்து எழுதுக.
8. 'மணநூல்' எனப்படும் காப்பியம்?
9. பாண்டியன் பரிசு காப்பிய ஆசிரியர் யார்?
10. கண்ணதாசனின் இயற்பெயரைக் குறிப்பிடுக.

பகுதி ஆ — ($5 \times 5 = 25$ மதிப்பெண்கள்)

பின்வரும் வினாக்களுக்கு ஒரு பக்க அளவில் விடை தருக.

11. (அ) அடி எத்தனை வகைப்படும்? சான்றுகளுடன் விளக்குக.

(அல்லது)

(ஆ) புதுக்கவிதையில் குறியீடு பெறுமிடத்தைச் சுட்டி வரைக.

12. (அ) ஊடல் பொருளுக்குரிய அகத்திணை யாது? கருப்பொருட்களுடன் விவரிக்க.

(அல்லது)

(ஆ) சங்க கால வீரத்தைப் புறப்பொருள் இலக்கணம் கொண்டு விரித்துரைக்க.

13. (அ) 'மையோ மாமலையோ மறிகடலோ' – இதில் பயின்று வரும் அணியை விளக்குக.

(அல்லது)

(ஆ) நிறுத்தற்குறிகளில் 'காற்புள்ளி' வருமிடங்களைச் சான்றுகளுடன் எழுதுக.

14. (அ) பத்துப்பாட்டு நூல்களைப் பாடு பொருள் அடிப்படையில் பகுத்துக் கூறுக.

(அல்லது)

(ஆ) நாலடியார் நூல் எழுந்த வரலாற்றை எடுத்துரைக்க.

15. (அ) பெரிய புராணத்தின் தனித்துவத்தை நும் பாடப் பகுதியால் நிறுவுக.

(அல்லது)

(ஆ) பாண்டியன் பரிசு காப்பியத்தின் கதைக் களத்தைச் சுருக்கி வரைக.

பகுதி இ — ($3 \times 10 = 30$ மதிப்பெண்கள்)

பின்வரும் வினாக்களில் மூன்றனுக்குக் கட்டுரை வடிவில் விடை தருக.

16. அகவற்பாவின் இலக்கணத்தைக் கூறி வகைகளைப் பட்டியலிடுக.
17. அன்பின் ஐந்திணைகள் குறித்த செய்திகளைத் தொகுத்துரைக்க.
18. உவமை அணியின் இலக்கணத்தைச் சான்றுகள் காட்டி விவரிக்க.
19. மதுரைக் காஞ்சி நூல் வழிச் சங்க கால வரலாற்றை எடுத்துரைக்க.
20. பாரதியாரின் நாட்டுப்பற்றைப் 'பாஞ்சாலி சபதம்' வழி விரிந்துரைக்க.

D-5130

Sub. Code

41B

DISTANCE EDUCATION

**COMMON FOR B.A/B.Sc./B.C.A. DEGREE EXAMINATION,
MAY 2022.**

Fourth Semester

Part I – HUMAN SKILLS DEVELOPMENT – II

(CBCS 2018 – 19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Give four roles of a counsellor.
2. What are the three managerial skills?
3. Define technical skills.
4. What are the types of presentation?
5. Give two examples for multitasking skills.
6. What are the roles of a leader?
7. What skills are needed to work as an individual?
8. Write about the importance of problem solving skills?

9. Give two methods to improve your problem solving skills.

10. What is cooperative learning skills?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions. Choosing either (a) or (b).

11. (a) Elaborate the importance of counselling.

Or

(b) Define managerial skills with examples.

12. (a) Write about the importance of conceptual skills.

Or

(b) Illustrate the tools in technical skills.

13. (a) How do you improve your grasping power?

Or

(b) Write a note on qualities of a good leader?

14. (a) What are some important skills for community organizers?

Or

(b) How are skills in human connection relevant at all management level?

15. (a) Where do you use problem solving skills?

Or

(b) Define social responsibilities.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE of the following

16. Write an essay on the importance and techniques of counselling.
 17. List out the types of communication skills.
 18. How to analyse a candidate in an interview?
 19. Elaborate cooperative learning skills.
 20. What are problem solving skills and how are they important?
-

D-5131

Sub. Code

42

DISTANCE EDUCATION

**Common for B.A./B.Sc./B.C.A. DEGREE EXAMINATION,
MAY 2022.**

Fourth Semester

PART II – ENGLISH PAPER – IV

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. How old was Schatz? What disease was he suffering from?
2. What is the dream of klaus?
3. What have Pickering and Higgins written respectively?
4. Write about Shankar's qualities as a student.
5. How much money did shylock give to Bassanio?
6. What disturbed the peace of Verona?
7. When did martin Luther king Jr. deliver his famous speech "I have a Dream"?
8. Put in the correct tag question:
 - (a) She's from a small town in china.
 - (b) Julie is not an accountant?

9. Expand the below given proverb.

“Make hay while the sun shines”

10. Give some expressions of apology.

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Sketch the character of sahib.

Or

- (b) Analyse the short story ‘Little Girls wiser than men’.

12. (a) Discuss the transformation of Eliza in Pygmalion.

Or

- (b) Describe the personalities of Swami’s friends?

13. (a) How does Bassanio win the right to marry Portia?

Or

- (b) Examine the role of Escalus.

14. (a) Why was Martin Luther king Jr. awarded the 1964 Nobel peace prize?

Or

- (b) Describe the second meeting of Toynbee and Nehru.

15. (a) Add appropriate question tags to the following sentences.

- (i) She speaks English well
- (ii) He has left
- (iii) You will have some tea
- (iv) I need not stay long
- (v) She loves dancing
- (vi) You are not joining the Strike
- (vii) He broke the glass
- (viii) He is not late
- (ix) He used to play cricket when he was young
- (x) Let's take some rest

Or

(b) Elaborate the use of Apology, request and thanking in a conversation.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

- 16. Analyse the story 'Two old Men'.
- 17. Write about Eliza's transformation.
- 18. What is the reason that the play was named, 'The winter's Tale'?
- 19. Write about Martin Luther King Jr. as given by R.N. Roy.
- 20. What is the significance of Toynbee's meetings with Nehru?

D-5231

Sub. Code

13043/13243

DISTANCE EDUCATION

**B.Sc. (Computer Science)/B.Sc. (CS) (Lateral Entry) DEGREE
EXAMINATION, MAY 2022.**

Fourth Semester

JAVA PROGRAMMING

(CBCS 2018-19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Expand JVM.
2. Define variable.
3. What are the two types of type casting in Java?
4. List out the types of Branching statements.
5. What do you mean by Class in Java?
6. Give the use of Inheritance.
7. What is finalize() method.
8. How to compare two strings in Java?

9. Define abstract class.
10. List out any two methods in Graphics class.

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions choosing either (a) or (b).

11. (a) List out any two Java features. Explain them briefly.

Or

- (b) Write a short note on Data Types in Java.

12. (a) Discuss various arithmetic operators in Java.

Or

- (b) Write a short note on Switch statement in Java with Example.

13. (a) Describe the class fundamentals in Java with diagram.

Or

- (b) Write a Java program using Exception handling mechanism.

14. (a) How to create a Thread in Java? Explain.

Or

- (b) Discuss about any two pre-defined exceptions in Java.

15. (a) Illustrate the usage of super keyword.

Or

- (b) Write a program using String Class to sort a list of Strings.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Discuss in detail about Evolution of Java.
17. Discuss in detail about looping statements in Java with example.
18. Elaborate in detail about inheritance and its types in Java with example.
19. Describe about Packages in Java with example.
20. Discuss in detail about Applet life cycle.

D-5232

Sub. Code

13051/13251

DISTANCE EDUCATION

B.Sc. (CS)/ B.Sc. (CS) (Lateral Entry) DEGREE
EXAMINATION, MAY 2022.

Fifth Semester

OPERATING SYSTEMS

(CBCS 2018-19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — ($10 \times 2 = 20$ marks)

Answer ALL the questions.

1. Define Process State.
2. What is Inter process communication?
3. What are the types of Semaphores?
4. What do you mean by mutual exclusion in deadlock?
5. How is Deadlock detected and avoided?
6. What are the types of scheduling levels?
7. What is Virtual memory?
8. What are the ways of memory management?

9. Define Disk scheduling strategies.
10. What is File access control?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Explain the process states in an Operating System.

Or

- (b) What are the user goals and system goals of Operating System.

12. (a) Elaborate the Implementation mutual exclusion primitives.

Or

- (b) How will you implement mutual exclusion in operating systems.

13. (a) What is Deadlock with suitable examples in detail.

Or

- (b) Describe Dijkstra's banker algorithm in operating system.

14. (a) Write short note on :

- (i) Fixed Partition Multiprogramming
- (ii) Variable Partition Multiprogramming.

Or

- (b) Give some characteristics of Virtual Memory Management.

15. (a) Explain in detail about Disk Performance.

Or

- (b) Describe about free space management in operating system.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Explain in detail about Inter-process Communication, its types, advantages and disadvantages.
17. Discuss in detail about Page replacement algorithms and its types.
18. Elaborate the Processor Scheduling.
19. Discuss in detail about the Virtual Memory Management in detail.
20. Briefly explain about Disk scheduling strategies.

D-5233

Sub. Code

13052/13252

DISTANCE EDUCATION

B.Sc. (CS)/B.Sc. (CS) (Lateral Entry) DEGREE
EXAMINATION, MAY 2022.

Fifth Semester

RELATIONAL DATABASE MANAGEMENT SYSTEMS
(RDBMS)

(CBCS 2018-19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — ($10 \times 2 = 20$ marks)

Answer ALL questions.

1. Give the levels of data abstraction.
2. Define multiplicity.
3. What is a tuple variable?
4. State the two types of relational calculus.
5. Write the condition for a relation schema to be in 2NF.
6. What is embedded SQL?
7. What is conflict-serializable schedule?

8. Differentiate between optimistic locking and pessimistic locking.
9. Define 2 way search tree.
10. What do you mean by performance tuning?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Write the functions of database administrator.

Or

- (b) Mention various Data Manipulation Language operations with examples.

12. (a) Describe about various set operations defined in a relational algebra with example.

Or

- (b) Write the basic operations of relational algebra in detail.

13. (a) Differentiate 3NF and BCNF with examples.

Or

- (b) What are the different form of nested queries? Explain each of them.

14. (a) How will you recover a transaction if it fails to commit?

Or

- (b) Explain the two types of buffering done by a buffer manager.

15. (a) Write in detail about the single level ordered index.

Or

- (b) Discuss the different type of indexing.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Explain in detail about the three-tier schema architecture of DBMS.
17. How queries are built with the relational algebra? Explain with the help of a diagram.
18. What is Normalization? Explain in detail different forms of normalization with suitable example.
19. Discuss the problem of deadlock and starvation. Illustrate with example that the two-phase locking protocol is not deadlock free.
20. Explain the hash-based and tree-based indexing in detail.

D-5234

Sub. Code

13053/13253

DISTANCE EDUCATION

**B.Sc. (Computer Science) /B.Sc. (CS) (Lateral Entry) DEGREE
EXAMINATION, MAY 2022.**

Fifth Semester

COMPUTER ARCHITECTURE

(CBCS 2018-19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define: Quantitative Principles of Computer design.
2. List out any two instruction set.
3. What is meant by Pipeline?
4. List out any two limitations of ILP.
5. Define: Static branch prediction.
6. List out the difference between Hardware and software speculation.
7. Define: Hit time.
8. What is meant by RAID?

9. Define: Multiprocessor Level Parallelism.

10. What is Multithreading?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Describe about Instruction set classification in architecture.

Or

(b) Explain the instructions of control flow in architecture.

12. (a) Describe about the concept of ILP.

Or

(b) Write short notes about IP6 Micro architecture

13. (a) Discuss the concept of Advanced compiler support mechanism in brief.

Or

(b) Describe the architecture for IA 64 and Itanium processor in brief.

14. (a) Brief the performance of Cache memory and list out how to reduce the hit time.

Or

(b) Write short notes on types of storage devices.

15. (a) Describe about the shared memory architecture.

Or

- (b) Brief the concept of Synchronization in architecture.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Explain different types of addressing modes with an example.
17. Discuss in detail about Dynamic Scheduling.
18. Explain about Hardware support for exposing parallelism.
19. Explain in detail about the RAID architecture with diagram.
20. Discuss about the concept of Models of memory consistency.
-

D-5235

Sub. Code

13061/13261

DISTANCE EDUCATION

B.Sc. (CS)/B.Sc. (CS) (Lateral Entry) DEGREE
EXAMINATION, MAY 2022.

Sixth Semester

Computer Science

COMPUTER NETWORKS

(CBCS 2018-19 Academic Year onwards)

Time : Three hours

Maximum : 75 marks

PART A — ($10 \times 2 = 20$ marks)

Answer ALL questions.

1. Mention the features of LAN.
2. For n devices in a network, what is the number of cable links required for a mesh and ring topology?
3. What are the issues in data link layer?
4. List the protocols used with CSMA.
5. Differentiate circuit switching and packet switching.
6. Define congestion.
7. What are the duties of the transport layer?
8. What is WWW?
9. Define cryptography.
10. What are the categories of active attack?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Name the four basic network topologies and explain them in brief.

Or

- (b) Explain about coaxial cable and fiber optics media for communication.

12. (a) Write short notes on CRC.

Or

- (b) Describe the sliding window protocol for data link layer.

13. (a) Give a brief account on Message switching.

Or

- (b) Mention the limitations of link state routing algorithm.

14. (a) Discuss the various timers used by TCP to perform its various operations.

Or

- (b) Explain in short on why the domain name system (DNS) is needed in networks?

15. (a) (i) Convert the Given Text “CRYPTOGRAPHY” into cipher text using Rail fence Technique. (3)
(ii) List out the components of encryption algorithm. (2)

Or

- (b) Describe the structure of DES and its key generation algorithm.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. With a neat diagram, explain OSI reference model.
 17. Describe the error detecting and correcting techniques employed in data communications.
 18. Explain shortest path algorithm with a suitable illustration.
 19. List and discuss the states used in the TCP connection management finite state machine.
 20. Discuss any four Substitution Techniques used in cryptography and list their merits and demerits.
-

D-5236

Sub. Code
13062/13262

DISTANCE EDUCATION

B.Sc. (CS)/B.Sc. (CS) (Lateral Entry) DEGREE
EXAMINATION, MAY 2022.

Sixth Semester

VISUAL BASIC PROGRAMMING

(CBCS 2018-19 Academic Year onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

All questions carry equal marks.

1. What is the purpose of visual basic?
2. Differentiate window and form layout window.
3. What are a controls sizing handles for?
4. Which from property sets the title that appears in the forms title bar?
5. State multiple forms.
6. What is an array?
7. What is the event property used in menu processing?
8. List the use of MDI form.
9. State DAO.
10. List the use of record set.

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Give an account on visual basic.

Or

- (b) Illustrate the event driven procedures.

12. (a) Discuss about the literals and data types.

Or

- (b) Write a program using command button.

13. (a) Explain about the String functions.

Or

- (b) Evaluate the control arrays.

14. (a) How do you creating menus?

Or

- (b) Describe about the basic building in MDI child forms.

15. (a) Explain about the commit and rollback transaction.

Or

- (b) Illustrate the OLE DB and ADO.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

All questions carry equal marks.

16. How do you saving, running and testing in VB program? Explain.

17. Write a VB program using for-next control structure.

18. Evaluate the Recursive function.
 19. Write notes on adding code to menus.
 20. Discuss on connecting to the database and retrieving a record set.
-

D-5237

Sub. Code

13063/

13263

DISTANCE EDUCATION

B.Sc. (CS)/B.Sc. (CS) (Lateral Entry) DEGREE
EXAMINATION, MAY 2022.

Sixth Semester

Computer Science

SOFTWARE ENGINEERING

(CBCS 2018 – 2019 Academic year onwards)

Time : Three hours

Maximum : 75 marks

SECTION A — ($10 \times 2 = 20$ marks)

Answer ALL questions.

1. What is Software Myths?
2. Mention the framework activities of Personal Software Process (PSP).
3. List out various functions of Requirement Engineering.
4. Define Data Objects.
5. What do you mean by Design Pattern?
6. List out common design issues in interface design.
7. Define a term Verification.
8. What does Software Quality mean?

9. Expand RMMM.

10. Define Software Reliability.

SECTION B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Comment on Software Engineering - A layered technology.

Or

(b) Write a short note on Waterfall Model with necessary diagram.

12. (a) Explain about Validating Requirements.

Or

(b) Illustrate Swimlane Diagram with example.

13. (a) Write down the Quality Guidelines.

Or

(b) Comment on Hierarchical Representation in Interface Design.

14. (a) Explain about Validation Testing.

Or

(b) Write a note on ISO 9126 Quality Factors.

15. (a) How to assess risk impact?

Or

(b) Comment on Defect Amplification and Removal.

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Discuss about Evolutionary Process Models.
 17. Explain about Requirements Engineering Tasks.
 18. Illustrate on Design Concepts.
 19. Explain about Metrics for Software Quality.
 20. How to identify the risk? Explain it.
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D-1119

Sub. Code

11A/13711

DISTANCE EDUCATION

Common for B.A./B.Sc./B.B.A./B.B.A.(Banking)/B.C.A./M.B.A.
(5 Year Integrated) DEGREE EXAMINATION, MAY 2023.

First Semester

PART I : TAMIL PAPER – I

(பகுதி I : தமிழ் – I)

(CBCS 2018 – 2019 Academic Year Onwards/
2020–21 Calendar year onwards)

Time : Three hours

Maximum : 75 marks

பகுதி அ — (10 × 2 = 20 மதிப்பெண்கள்)

அனைத்து வினாக்களுக்கும் விடையளிக்க.

1. கவிஞர் கண்ணதாசனின் இயற்பெயர் யாது?
2. “செய்யும் தொழிலே தெய்வம்” - எனப் பாடியவர் யார்?
3. ‘நோயற்ற வாழ்வு’ கவிதையின் ஆசிரியர் யார்?
4. மீரா (மீ. இராசேந்திரன்) பிறந்த ஊர் எது?
5. ஞானக்கூத்தனின் இயற்பெயர் யாது?
6. கவிஞர் சிற்பி சர்ப்பயாகத்தில் குறிப்பிடும் பாம்புகளின் பெயர்களைக் குறிப்பிடுக.
7. அப்துல் ரகுமானின் படைப்புகள் இரண்டினைக் குறிப்பிடுக.
8. சிலம்பு கூறும் முப்பெரும் உண்மைகள் யாவை?
9. “யாரையோ நீ தொழுதனம் மடக்கொடி” - யார் யாரைப் பார்த்துக் கூறியது?
10. தேம்பாவணியின் ஆசிரியர் யார்?

பகுதி ஆ — (5 × 5 = 25 மதிப்பெண்கள்)

அனைத்து வினாக்களுக்கும் ஒரு பக்க அளவில் விடையளிக்க.

11. (அ) “கோகுலத்துப் பசுக்கள்...” பாடலில் காணலாகும் கண்ணனின் சிறப்பினை விளக்குக.

(அல்லது)

- (ஆ) பட்டுக்கோட்டை கலியாண சுந்தரத்தின் பகுத்தறிவுச் சிந்தனைகளை விளக்குக.

12. (அ) கண்ணனின் குறும்புகளைப் பாரதி வழி விளக்குக.

(அல்லது)

- (ஆ) பாரதிதாசனின் கவித்திறத்தை ஆராய்க.

13. (அ) நோயற்ற வாழ்வு குறித்த நாமக்கல் கவிஞரின் கருத்துக்களைத் தொகுத்தெழுதுக.

(அல்லது)

- (ஆ) ‘சர்ப்ப யாகம்’ கவிதை வழிச் சிற்பி கூறும் வெற்றிக்கான வழிகளை விளக்குக.

14. (அ) கோப்பெருந்தேவியின் தீக்கனா - குறித்து எழுதுக.

(அல்லது)

- (ஆ) இராமன் வீதியிற் சென்றபோது நிகழ்ந்தவற்றை விளக்குக.

15. (அ) மந்திரக் கிழவர் மாண்புகள் குறித்தெழுதுக.

(அல்லது)

- (ஆ) நபிகள் நாயகம் ஈத்தங்குலை வரவழைத்த திறம் குறித்தெழுதுக.

பகுதி இ — ($3 \times 10 = 30$ மதிப்பெண்கள்)

எவையேனும் மூன்றனுக்கு கட்டுரை வடிவில் விடையளிக்க.

16. ஸ்ரீ கிருஷ்ணகானம் கூறும் கண்ணனின் பெருமைகளைத் தொகுத்து எழுதுக.
 17. பாரத மாதாவின் திருப்பள்ளி எழுச்சிச் சிறப்பினை விளக்கி எழுதுக.
 18. கண்ணகி வழக்குரைத்த திறம் குறித்துக் கட்டுரைக்க.
 19. மந்திரப்படலம் கூறும் செய்திகளைத் தொகுத்து எழுதுக.
 20. காட்சிப்படலக் கருத்துக்களை விளக்கி வரைக.
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D-1120

Sub. Code

11B

DISTANCE EDUCATION

Common for B.A./B.Sc./B.B.A./B.B.A. (Banking)/B.C.A./M.B.A.
(5 Year Integrated) DEGREE EXAMINATION, MAY 2023.

First Semester

Part I – COMMUNICATION SKILLS – I

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What are called 'Barriers' in effective communication?
2. Define 'Communication'.
3. What is 'Dyadic Communication'?
4. Define 'Conversation'.
5. What does non-verbal communication refer to?
6. What is a layout in paragraph writing?
7. Write briefly on Group Discussion.
8. What is Body Language?
9. What is Report Writing?
10. What are typographical errors?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Analyse facial expressions' significance as non-verbal communication.

Or

- (b) Write the method to prepare an application for employment.

12. (a) Analyse Diction as one form of dyadic communication.

Or

- (b) How does 'Posture' carry significance as a part of body language?

13. (a) Bring out the role of participation in Group Discussion.

Or

- (b) Relate Behavioural Skills and Group Discussion.

14. (a) Discuss the advantages of use of words and phrases in written communication.

Or

- (b) Write a note on Sentence Formation.

15. (a) Discuss the preparatory steps to be taken for writing a report.

Or

- (b) Bring out the characteristics of an Effective Sentence.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Discuss the barriers to effective communication.
 17. Discuss the purpose of meetings.
 18. To be an effective writer, what are the desired qualities you should cultivate? Explain.
 19. Explain the steps involved in preparing Curriculum Vitae.
 20. Explain the different types of Report Writing.
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D-1121

Sub. Code

12/13712

DISTANCE EDUCATION

COMMON FOR B.A./B.Sc./B.B.A./

**B.B.A. (Banking)/B.C.A./M.B.A. (5 Year Integrated) DEGREE
EXAMINATION, MAY 2023**

First Semester

Part II : ENGLISH PAPER - I

(CBCS 2018-19 Academic Year onwards/2021 Calendar Year)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. How water is the elixir of life?
2. How did the tiger died in Mrs. Packletide's tiger?
3. Where did Jim Corbett sit after killing tiger?
4. How machines are good servants but bad masters?
5. List out the drug-related health disorders.
6. Man has invented machines to save time and energy. Discuss.
7. How quickly can someone become addicted to a drug?
8. What drugs commonly cause problems and how do they affect the body?
9. How does a cat say "Thank you"?
10. How did Joad use the word 'Oasis' in the essay?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) How does 'A deed of Bravery' deal with the heroic deeds of survival against all odds?

Or

- (b) Discuss the character of the cat.

12. (a) What is the message conveyed in "Our Ancestors" by Carl Sagan?

Or

- (b) What is the part played by Gandhi in South Africa?

13. (a) Illustrate the concept of "Food" by J.B.S. Haldane.

Or

- (b) Why did Gandhi's attempts to become a member of Indian Society fail?

14. (a) Change the following as directed :

- (i) They have already discussed the book (change to passive)
- (ii) The letters have to be delivered. (Change to active)
- (iii) The company hired new workers last year. (Change to passive)
- (iv) News reports are written by reporters. (Change to active)
- (v) The book has already been discussed. (Change to active)

Or

- (b) Fill in with proper prepositions.
- (i) The cat jumped — the counter.
 - (ii) The book belongs — Anthony.
 - (iii) She was hiding — the table.
 - (iv) They were sitting — the tree.
 - (v) There is some milk — the fridge.

15. (a) Write an application to the principal for a Relief camp.

Or

- (b) Write a dialogue between friends about lock down in their place.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

- 16. How C.V. Raman praises the importance of water as the life giving force to all, in his prose piece?
- 17. How A.G. Gardiner discusses that “How the art of the letter writing has been lost”?
- 18. Explain how Dr. Hardin B. Jones focuses on the drugs effect on the brain?
- 19. Write an appreciation of our civilization as said by Joad.
- 20. Narrate the incidents in the prose piece “A Hero on Probation”.

D-1234

Sub. Code

13013

DISTANCE EDUCATION

**B.Sc. (Computer Science) DEGREE EXAMINATION,
MAY 2023.**

First Semester

PROGRAMMING IN C

(CBCS – 2018-19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Define Constants.
2. What is identifier?
3. What is called mixed data type?
4. Explain multi-dimensional array.
5. What is function?
6. Define external variables.
7. Mention the need of pointer.
8. How to declare pointer variable?
9. List out different file modes.
10. Write about different error handling functions on files.

PART B — ($5 \times 5 = 25$ marks)

Answer ALL the questions, choosing either (a) or (b).

11. (a) Explain the declaration of variables with example.

Or

- (b) Explain about precedence of arithmetic operation.

12. (a) Explain formatted output function.

Or

- (b) Distinguish between while and do while statement.

13. (a) Explain user defined function with example.

Or

- (b) Write a short note on nested function with example.

14. (a) Explain call by value and call by reference.

Or

- (b) Write short note on pointers and structure.

15. (a) How to open and close a file? Explain.

Or

- (b) Describe about random access file.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Briefly explain operators in C.
17. Explain about string handling functions with example.
18. Describe the two ways of passing parameter to function.
19. Explain about structure of pointers with example.
20. Detailed notes on file handling I/O operations.

D-1122

Sub. Code

21A

DISTANCE EDUCATION

Common for B.A./B.Sc./B.B.A./B.B.A. (Banking)/B.C.A./M.B.A.
(5 Year Integrated) DEGREE EXAMINATION, MAY 2023.

Second Semester

Part I : TAMIL PAPER — II

(CBCS 2018 – 2019 Academic year onwards)

Time : Three hours

Maximum : 75 marks

பகுதி அ — (10 × 2 = 20 மதிப்பெண்கள்)

அனைத்து வினாக்களுக்கும் விடையளிக்க.

1. தேம்பாவணியின் காப்பியத் தலைவன் பெயரைக் குறிப்பிடுக.
2. நீலபத்மநாபன் எந்தப் படைப்பிற்காகச் சாகித்ய அகதெமி விருது பெற்றார்?
3. 'நூலிலாட்டு' என்றால் என்ன?
4. முதலெழுத்துக்களைச் சுட்டிக் கூறுக.
5. அன்மொழித்தொகை-விளக்கம் தருக.
6. 'ஆறில் ஒரு பங்கு' என்னும் சிறுகதையின் ஆசிரியர் யார்?
7. ஓரங்க நாடகம்-குறிப்பு வரைக.
8. இந்தியாவின் முதல் வானொலி நிலையம் எங்கு அமைக்கப்பட்டது?

9. பெரியபுராணத்தின் காப்பிய நாயகன் யார்?
10. பெண்களின் பாதுகாப்பிற்காகத் தமிழகக் காவல்துறை உருவாக்கியுள்ள 'செயலி' யாது?

பகுதி ஆ — ($5 \times 5 = 25$ மதிப்பெண்கள்)

பின்வரும் வினாக்களுக்கு ஒரு பக்க அளவில் விடை தருக.

11. (அ) புண் ஆற்றும் மருந்தாய் பாவம் தீர்க்க வந்த காலத்தினை வீரமாமுனிவர் எங்ஙனம் விவரிக்கின்றார்?

(அல்லது)

(ஆ) சாந்தி உள்ளம் உருகிப் போற்றி நின்றதனை விளக்கி வரைக.

12. (அ) நீலபத்மநாபனின் 'விமோசனம்' சிறுகதைச் சுருக்கத்தை எழுதுக.

(அல்லது)

(ஆ) தடாகையின் ஆற்றலைக் கம்பன் எங்ஙனம் விரிந்துரைக்கிறார்?

13. (அ) மொழி முதல் எழுத்துக்களை எடுத்துக்காட்டுகளுடன் விவரிக்க.

(அல்லது)

(ஆ) ஆகுபெயர் இலக்கணத்தைச் சான்று காட்டி விளக்குக.

14. (அ) மகாகவி பாரதியாரின் தேசப்பற்றைப் பாராட்டியுரைக்க.

(அல்லது)

(ஆ) தமிழ் நாவல் இலக்கிய வளர்ச்சி வரலாற்றை எடுத்துரைக்க.

15. (அ) கம்பன் கவித்திறத்தை நும் பாடப்பகுதியால் விவரிக்க.

(அல்லது)

(ஆ) கல்வி வளர்ச்சியில் தொலைக்காட்சியின் பங்கு குறித்து விளக்கிடுக.

பகுதி இ — ($3 \times 10 = 30$ மதிப்பெண்கள்)

பின்வரும் வினாக்களில் மூன்றனுக்குக் கட்டுரை வடிவில் விடை தருக.

16. சாந்தி உள்ளம் மகிழ்ந்து குழந்தை ஏசுவைப் போற்றுமாற்றை விவரிக்க.

17. நீலபத்மநாபனின் சிறுகதைகள் பேசும் சமூகக் கருத்துக்களைக் கட்டுரைக்க.

18. பிறமொழிச் சொற்களைத் தமிழில் ஆளும் முறைகள் குறித்து விவரிக்க.

19. போர்க்களத்தில் செய்தி தொடர்பு பெறுமிடத்தைக் கம்பராமாயணத்தின் வழி விளக்குக.

20. இணையப் பயன்பாட்டில் தமிழ்மொழி பெறும் முக்கியத்துவத்தைச் சான்றுகளுடன் எழுதுக.

D-1123

Sub. Code

21B

DISTANCE EDUCATION

**COMMON FOR B.A./B.Sc./B.B.A./B.B.A.
(Banking)/B.C.A./M.B.A. (5 Year Integrated)
DEGREE EXAMINATION, MAY 2023.**

Second Semester

Part I – COMMUNICATION SKILLS – II

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What is Communication Skills?
2. What are comprised in Communication skills?
3. Define Intonation.
4. Why Phonetics is important in communication skills?
5. What is meant by soft skills?
6. What are the modes involved in conversation skills?
7. Define planning in presentation skills.
8. Explain the term Creative writing.
9. Define Resume.
10. What is meant by Corporal Communication Skills?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Write the code and content of communication skills.

Or

- (b) Explain the stimulus and Response of Communications Skills.

12. (a) Write the Guidelines for Effective Speaking in Communication Skills.

Or

- (b) What are the Etiquettes of Communication Skills?

13. (a) How self-assessment is important in Communicating in Soft Skills.

Or

- (b) Explain the modes of Conversation Skills.

14. (a) Define Listening Skill and its types.

Or

- (b) Explain about editing and publishing.

15. (a) Write the Structure of Effective sentences in Writing Skills.

Or

- (b) Write a short note on various kinds of letters.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Write an essay on the process of communication and factors.
 17. Explain how phonetics is priority in Speaking Skill.
 18. Write about Language Skills and its ability in Learner centre activities.
 19. How writing skills is important in corporate Communication.
 20. Explain the Structure of Effective Sentence and Paragraph.
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D-1124

Sub. Code

22/13722

DISTANCE EDUCATION

Common for B.A./B.Sc./B.B.A./B.B.A. (Banking)/B.C.A./M.B.A.
(5 Year Integrated) DEGREE EXAMINATION, MAY 2023.

Second Semester

Part II – ENGLISH PAPER - II

(CBCS 2018 – 2019 Academic Year Onwards/
2021 Calendar Year Onwards)

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions

1. What type poem is 'The Road Not Taken'?
2. What did Andrea do with the money he had stolen as given in 'Andrea del Sarto'?
3. How is the speaker preoccupied with the depiction of pictures in 'Ode on a Grecian Urn'?
4. What do the first three lines of the poem 'Lines, Composed upon Westminster Bridge, September 3, 1802' emphasise?
5. What does the First Part of *Gitanjali* sing about?
6. What is the moral of *Gitanjali*?

7. How does Portia react to the Prince of Morocco's failure as a suitor?
8. What act does Jessica believe will solve the misery of life with Shylock?
9. Write the problems of Comprehension tests.
10. Read the given passage and answer the questions:

Looking back, I had come a long way. The little boy, born to cricket, who once fashioned a crude pitch with a mattock out of the side of a hill in the tiny hamlet of Lisarow, had gone on to play forty four times for Australia. From Lisarow to Lord's. Yes it had been a long, long way.

(a) Whom do you think the writer could be?

(i) A cricketer

(ii) A traveller

(iii) A peasant

(iv) A voyager

(b) He belongs to _____

(c) How many times has he played for his country?

SECTION B — (5 × 5 = 25 marks)

Answer ALL the questions choosing either (a) or (b).

11. (a) Write the theme of the poem, 'Strange Meeting'.

Or

- (b) How and why does Andrea compare his skill in painting with Michael Angelo and Raphael?

12. (a) How does the speaker react on seeing the figures on the Urn in 'Ode on a Grecian Urn'?

Or

- (b) "The main theme of 'The Road Not Taken' is making choices" – Elucidate.

13. (a) Write the main concept of *Gitanjali*.

Or

- (b) How does the speaker contemplate early-morning London from the Westminster Bridge?

14. (a) Discuss Shylock's dramatic function in *The Merchant of Venice*.

Or

- (b) In the end how comic is *The Merchant of Venice*?

15. (a) Write a report on the damage done by fire to the office building and the ways and means of carrying on with the business during the renovation of the building.

Or

- (b) Read the following passage and answer the following questions:

Our days were spent in the servants' quarters in the south-east corner of the outer apartments. One of our servants was Shyam, a dark Chubby boy with curly locks, hailing from the District of Khulna. He would put me into a selected spot and, tracing a chalk line all around, warn me with solemn face and uplifted finger, of the perils of transgressing this ring.

Whether the threatened danger was material or spiritual I never fully understood, but a great fear used to possess me and I had read in the Ramayana of the tribulations of Sita for having left the ring drawn by Lakshman. So it was not possible for me to be sceptical of its potency.

- (i) Where did the writer spend his day time?
- (ii) Was Shyam the only servant?
- (iii) Where did the servant come from?

- (iv) Why was the author afraid of transgressing the circle drawn by the servant?
- (v) What made Sita undergo the suffering?

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Critically appreciate the poem, 'The Coromandel Fishers'.
17. How does Rabindranath Tagore draw the picture of death through his songs in *Gitanjali*?
18. Draw the character sketch of Shylock in *The Merchant of Venice*.
19. Read the following passage and make notes:

The plants which man grows to provide food for himself and his animals must have water or they will die. This is because plant nutrients in the soil cannot enter the root unless they have first been dissolved in water. Plants also need to absorb large quantities of water from the soil to build up their tissues. They lose a great deal of water to the atmosphere each day as water vapour. The process by which plants lose water is called transpiration. In hot climates more water is lost, and this loss must also be replaced from the soil.

Rain supplies most of the water that plants need but unfortunately it does not always fall at the right time of the year or in sufficient quantities. Plants may stay alive if rain is scarce, but they will not yield such a good harvest of food.

For centuries, man had devised methods of supplementing natural supplies of water to his crops by means of irrigation. These methods vary according to the climate, the crops and the available water resources. In tropical and Mediterranean countries water is usually brought to the crops by a network of surface ditcher. This is known as surface irrigation. In Europe and in the U.S.A., water is normally pumped from a stream through pipes and spread on the field from the above. This is called overhead irrigation.

20. Write an essay on the following topic:

Information Technology Revolution.

D-1235

Sub. Code

13023

DISTANCE EDUCATION

**B.Sc. (Computer Science) DEGREE EXAMINATION,
MAY 2023.**

Second Semester

OBJECT ORIENTED PROGRAMMING AND C++

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What do you understand by dynamic binding?
2. Give a brief outline of manipulator.
3. List out the access specifiers.
4. Define inline function.
5. What do you mean by function overloading?
6. How you will convert an object data type to a basic data type?
7. How can you open and close a file?
8. Define file pointer.
9. Write the syntax of catch keyword.
10. How do you handle throw keyword?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b)

11. (a) Describe the hierarchy of console stream classes.

Or

- (b) Mention the categories of formatted console I/O operation.

12. (a) Describe the concept of friend function.

Or

- (b) Briefly explain dynamic initialization through constructors.

13. (a) Explain unary operator overloading.

Or

- (b) Mention a brief outline of abstract class.

14. (a) Narrate inheritance of class template.

Or

- (b) Describe the concepts of random access to a file.

15. (a) Briefly explain exception in constructor and destructor.

Or

- (b) Discuss about memory allocation failure exception.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Discuss about object oriented paradigm with neat diagram.
17. Explain in detail about pointers to objects.

18. Mention the important concept of overloading with friend function.
 19. Explain the concept of file pointer and their manipulator.
 20. Illustrate in detail about exception in operator overloaded function.
-

D-1125

Sub. Code

**31A/
13731**

DISTANCE EDUCATION

**COMMON FOR B.A./B.Sc./B.C.A. DEGREE EXAMINATION,
MAY 2023.**

Third Semester

PART I – TAMIL — PAPER — III

**(CBCS 2018 – 2019 Academic year onwards
2021 Calendar Year Onwards)**

Time : Three hours

Maximum : 75 marks

பகுதி அ — (10 × 2 = 20 மதிப்பெண்கள்)

அனைத்து வினாக்களுக்கும் விடையளிக்க.

1. பத்துப்பாட்டு பெயர்க் காரணம் தருக.
2. மஞ்ஞைப்பத்து-குறிப்பு வரைக.
3. நற்றிணையின் பாடலடி வரையறையைச் சுட்டுக.
4. உலோச்சனார் சுட்டும் இரும்பு போன்ற மரம் எது?
5. திருக்குறளில் பயின்று வரும் பாவகையைக் கூறுக.
6. மங்கலம் என்பது யாது? திருக்குறள் வழி விளக்குக.
7. நான்மணிக் கடிகையின் ஆசிரியர் யார்?
8. பறை ஒலியால் இறக்கும் பறவை எது?

9. இராசராச சோழனின் மகள் பெயரைச் சுட்டுக.
10. சுவடுகள் நாவலில் இடம்பெறும் தலைமை மாந்தர் பெயர்களை எழுதுக.

பகுதி ஆ — ($5 \times 5 = 25$ மதிப்பெண்கள்)

பின்வரும் வினாக்களுக்கு ஒருபக்க அளவில் விடை தருக.

11. (அ) முல்லைப் பாட்டு கூறும் விரிச்சி கேட்டல் குறித்து எழுதுக.

(அல்லது)

- (ஆ) மஞ்ஞைப்பத்து வெளிப்படுத்தும் வர்ணனைகளை விளக்குக.

12. (அ) மேகம் பெரும் மழை பொழிந்ததனால் ஏற்பட்ட பயன்களாகப் பெருங்குன்றூர்க் கிழார் குறிப்பிடுவன யாவை?

(அல்லது)

- (ஆ) வரைவிடை மெலிவு ஆற்றுவிக்கும் தோழி தலைவனை நோக்கிக் கூறியது யாது?

13. (அ) குறித்த பருவத்தில் தலைவன் வாராமையால் ஏற்பட்ட தலைவியின் நிலையாகக் கருவூர்க் கோசிகனார் கூறுவனவற்றை எழுதுக.

(அல்லது)

- (ஆ) வரைவிடை வைத்துப் பிரிந்தபோது தலைவி வருந்திய நிலையை உலோச்சனார் எங்ஙனம் புனைகின்றார்?

14. (அ) வாழ்க்கைத் துணை நலம் கூறும் செய்திகளைத் திருக்குறள் வழி ஆராய்க.

(அல்லது)

- (ஆ) நான்மணிக் கடிகை சுட்டும் நல்லாள் பிறக்கும் குடியை அறிபவர் யார்?

15. (அ) இராசராச சோழன் நாடகத்தின் தொடக்கச் சிறப்பினை விளக்குக.

(அல்லது)

(ஆ) சுவடுகள் நாவலில் இரகுபதி பாத்திரப் படைப்பினை ஆராய்க.

பகுதி இ — ($3 \times 10 = 30$ மதிப்பெண்கள்)

பின்வரும் வினாக்களில் மூன்றனுக்குக் கட்டுரை வடிவில் விடை தருக.

16. முல்லைப் பாட்டு சுட்டும் கார்கால வருணனையைக் கட்டுரையாக்கம் செய்க.

17. கபிலர் குறிஞ்சித் திணை பாடுவதில் வல்லவர் என்பதை நும்பாடப் பகுதி கொண்டு விளக்கி வரைக.

18. பதினென்கீழ்க் கணக்கு நூல்கள் சுட்டும் வாழ்வியல் அறங்களைத் தொகுத்துரைக்க.

19. இராசராச சோழன் நாடகத்தின் பாத்திரப்படைப்பு உருவாக்கம் குறித்து விவரிக்க.

20. சுவடுகள் நாவலின் கதைப் போக்கு அமைப்பினைக் கட்டுரை வடிவில் எழுதுக.

D-1126

Sub. Code

31B

DISTANCE EDUCATION

**COMMON FOR B.A./B.Sc. B.C.A. DEGREE EXAMINATION,
MAY 2023.**

Third Semester

Part I – HUMAN SKILLS DEVELOPMENT-I

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What is Interpersonal Relationship?
2. What do you mean by developing human skills? Briefly answer.
3. Write briefly on Personality'.
4. Give the meaning of 'Positive Personality'.
5. Define 'Decision—Making' skills.
6. Give any two steps involved in decision making.
7. Write the meaning of goal setting.
8. Mention any one cause for Anger.
9. Write briefly on styles of Leadership.
10. What is Negotiation Skill?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Write a note on levels of functions of mind.

Or

- (b) Discuss the merits of good habits.

12. (a) How do you build a 'Positive Personality'?

Or

- (b) Discuss the importance of self-acceptance.

13. (a) Discuss the skills involved in 'decision making'.

Or

- (b) What are creative Negotiation and competitive Negotiation?

14. (a) What is resistance to change?

Or

- (b) Write a note on 'peeling with change'.

15. (a) Discuss the necessity for developing positive attitudes.

Or

- (b) Write the Canons of good human relations.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Explain the features of Interpersonal Behaviour.
17. Expound the etiquettes in using mobile phones and telephones.

18. Explain the various characteristics of Leadership.
 19. Discuss in detail the causes and consequences of anger.
 20. Explain the different methods of managing the stress.
-

D-1127

Sub. Code

32/13732

DISTANCE EDUCATION

Common for B.A./B.Sc./B.C.A DEGREE EXAMINATION,
MAY 2023.

Third Semester

PART II – ENGLISH PAPER III

(CBCS 2018 – 2019 Academic Year Onwards/2021 Calendar
Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Write briefly about the Postmaster.
2. Who is the author of the prescribed one-act play — 'Progress'?
3. What was the discovering that astonished the Vicar?
4. What does the necklace in reality represent in 'The Diamond Necklace'?
5. Write the theme of the play 'The Proposal' briefly.
6. Why does Mrs. Higgins refuse to serve breakfast to Philip?
7. What according to Pierre, is a sure sign of starvation?
8. Why could Swami hardly breathe?[in 'A Hero]
9. Give any four examples for Common Noun.

10. Fill in the blanks with the Abstract Nouns formed from the words given in brackets:

(a) Solomon was famous for his _____ (wise).

(b) Always speak the _____ (true).

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) “Guy de Maupassant talks about the deceptiveness of appearances in ‘The Diamond Necklace’. Justify.

Or

(b) Attempt a character sketch of the Verger.

12. (a) How do Lomov and Natalya fight over the quality of dogs?

Or

(b) Bring out the comic elements in ‘The Boy Comes Home’.

13. (a) How does the playwright bring out Pierre’s nervousness when he presents himself as the messenger to carry the eel pie?

Or

(b) Why did Swami keep expecting the devil to come and carry him away?

14. (a) What happened to the Postmaster and Ratan at the end of the story, ‘The Postmaster’?

Or

(b) Write a summary of ‘The Refugee’.

15. (a) Pick out the Adjectives in the following sentences and state their kind:
- (i) Some dreams are like reality.
 - (ii) Such men are dangerous.
 - (iii) He lives on Yonder Mountain.
 - (iv) I saw several sheep in the valley.
 - (v) He is ninety years of age.

Or

- (b) Choose the right verbs from brackets to complete each sentence:
- (i) The wind (blew, galloped, flew) hard that day.
 - (ii) A cork (floats, sails, flows) on water.
 - (iii) A river (floats, flows, swims) by our village.
 - (iv) The bird has (flown, fled, run) out of the cage.
 - (v) The servant (lay, laid, put) the table for breakfast.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

- 16. How does 'The Diamond Necklace' explore the perceived power of objects?
- 17. Whom do you think was wiser, Swami or his father? Justify your preference. [in 'A Hero']
- 18. Comment on the tendency of wealthy families seeking ties with other wealthy families as presented in 'The Proposal'.
- 19. Describe the events that took place in your College Day celebration.

20. Fill in the blanks with correct kind of Pronouns:

- (a) The prisoner hanged _____ (reflective)
- (b) They _____ went there. (Emphasizing)
- (c) _____ is my house. (demonstrative)
- (d) Do good to _____ (indefinite)
- (e) _____ of the girls was given a rose.
(Distributive)
- (f) _____ do you want to see ? (interrogative)
- (g) This is the horse _____ won the race.
(relative)
- (h) This is the boy _____ the teacher praised.
(relative)
- (i) I _____ was there. (Emphasizing)
- (j) The horse has hurt _____ (Reflexive)

D-1236

Sub. Code

13033/13233

DISTANCE EDUCATION

B.Sc. (CS)/B.Sc. (CS) (LATERAL ENTRY)
DEGREE EXAMINATION, MAY 2023.

Third Semester

DATA STRUCTURES AND ALGORITHMS

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — ($10 \times 2 = 20$ marks)

Answer ALL the questions.

1. Define the term data structure.
2. How do you measure the algorithm running time?
3. Mention the applications of stack.
4. Define circular queue.
5. What is mean by siblings?
6. Comment on non linear data structure.
7. What is mean by balanced search tree?
8. State the needs of searching.
9. Write the time complexity of radix sort.
10. Define tree sort.

PART B — ($5 \times 5 = 25$ marks)

Answer ALL the questions, choosing either (a) or (b).

11. (a) Explain the characteristics of array.

Or

- (b) Define array. How to initialize the array?

12. (a) Write an algorithm for push and pop operations on stack.

Or

- (b) Write a short note on single linked list.

13. (a) Explain about binary tree representation.

Or

- (b) Elaborate note on hashing techniques.

14. (a) Differentiate linear search and binary search.

Or

- (b) Explain binary search tree with an example.

15. (a) Illustrate the concept of bubble sort with example.

Or

- (b) Write an algorithm for selection sort.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Explain the role of space complexity for measuring the performance of an algorithm.
17. Discuss about linked list representation.

18. Describe the binary tree traversal.
 19. Illustrate the insertion and deletion operations on linear search tree.
 20. Explain quick sort with example.
-

D-1128

Sub. Code

41A/13741

DISTANCE EDUCATION

**COMMON FOR B.A./B.Sc./B.C.A. DEGREE EXAMINATION,
MAY 2023.**

Fourth Semester

Part - I — TAMIL – Paper IV

**(CBCS – 2018-19 Academic Year Onwards/
2021 Calendar Year onwards)**

Time : Three hours

Maximum : 75 marks

பகுதி அ — (10 × 2 = 20 மதிப்பெண்கள்)

அனைத்து வினாக்களுக்கும் விடையளிக்க.

1. இயலசையின் வகைகளைக் குறிப்பிடுக.
2. தளை எத்தனை வகைப்படும்?
3. கலிப்பாவிற்கான ஓசையைக் கூறுக.
4. குறிஞ்சித்திணைக்கான சிறுபொழுதுகளை எழுதுக.
5. செவியறிவுறுஉ என்றால் என்ன?
6. சிலேடை – குறிப்பு வரைக.
7. குறிஞ்சிப்பாட்டு என்னும் நூலைப் பாடியவர் யார்?
8. திருக்குறளில் மொத்தம் எத்தனை அதிகாரங்கள் உள்ளன?
9. சீவகசிந்தாமணி காப்பியத்தை இயற்றிய ஆசிரியர்?
10. 'பாஞ்சாலி சபதம்' காப்பியக் கதை மாந்தர்கள் இருவரைக் குறிப்பிடுக.

பகுதி ஆ — (5 × 5 = 25 மதிப்பெண்கள்)

பின்வரும் வினாக்களுக்கு ஒரு பக்க அளவில் விடை தருக.

11. (அ) அடியின் வகைகளைச் சான்றுகளுடன் விளக்குக.

(அல்லது)

(ஆ) சிந்து என்னும் யாப்பு வகையை விளக்கி வரைக.

12. (அ) அறத்தொடு நின்றல் என்றால் என்ன? அதன் முக்கியத்துவத்தைச் சுட்டுக.

(அல்லது)

(ஆ) சங்க காலத்தில் நடுகல் வழிபாடு மேற்கொண்ட வரலாற்றை எழுதுக.

13. (அ) 'மையோ மாமலையோ மறிகடலோ' – இதில் பயின்று வரும் அணியை விளக்குக.

(அல்லது)

(ஆ) மொழி நடையில் காற்புள்ளி எவ்வெவ்விடங்களில் பயன்படுத்த வேண்டும்?

14. (அ) பத்துப்பாட்டில் இடம்பெற்றுள்ள ஆற்றுப்படை நூல்களைப் பற்றி எழுதுக.

(அல்லது)

(ஆ) திருக்குறள் எங்ஙனம் பகுக்கப்பட்டுள்ளது? விளக்கி வரைக.

15. (அ) கம்பராமாயணத்தின் தனிச்சிறப்புகளைப் புலப்படுத்துக.

(அல்லது)

(ஆ) சிற்பியின் 'மௌன மயக்கங்கள்' கவிதைகள் குறித்து விரித்துரைக்க.

பகுதி இ — ($3 \times 10 = 30$ மதிப்பெண்கள்)

பின்வரும் வினாக்களில் மூன்றனுக்குக் கட்டுரை வடிவில் விடை தருக.

16. தொடையின் வகைகளைச் சான்றுகளுடன் விளக்கி வரைக.
 17. புறத்திணையின் வகைகளைச் சான்றுகளுடன் விளக்குக.
 18. செய்யுள் படைப்பில் அணி இலக்கணம் பெறுமிடத்தை எடுத்துரைக்க.
 19. கம்பரின் கவித்திறத்தைச் சான்றுகளுடன் கட்டுரைக்க.
 20. 'பாண்டியன் பரிசு' காப்பியத்தின் கதைக் களத்தை விரித்துரைக்க.
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D-1129

Sub. Code

41B

DISTANCE EDUCATION

**COMMON FOR B.A./B.Sc./B.C.A. DEGREE EXAMINATION,
MAY 2023**

Fourth Semester

PART I — HUMAN SKILLS DEVELOPMENT – II

(CBCS 2018-19 Academic Year onwards)

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Write any four techniques of counselling.
2. Why are managerial skills important?
3. What is conceptual skills? Give two examples.
4. Write about the importance of organisational skills.
5. What are the two types of multitasking?
6. Write five qualities of a good leader.
7. What are the most common types of social interaction?
8. What are problem-solving skills?
9. Define dependability in problem solving skills.
10. What is the main goal of cooperative learning skills?

SECTION B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Illustrate the role of a counsellor.

Or

- (b) Elaborate the human relational skills.

12. (a) How to prepare for a presentation?

Or

- (b) Define the nature of organizational skills.

13. (a) What are the skills you must convey in a job interview?

Or

- (b) What are the demands of multi tasking?

14. (a) What are the employability skills?

Or

- (b) Define intrapersonal skills with examples.

15. (a) Why is problem solving an important skill?

Or

- (b) What is the importance of social responsibility?

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Describe managerial skills and its need.

17. Elaborate importance and meaning of conceptual skills.

18. Write an essay on nature, importance and types of organisational skills.
 19. Responsibilities of an individual in a society. Explain.
 20. How to handle a problem?
-

D-1130

Sub. Code

42/13742

DISTANCE EDUCATION

**Common for B.A./B.Sc./B.C.A. DEGREE EXAMINATION,
MAY 2023.**

Fourth Semester

Part II – ENGLISH PAPER-IV

**(CBCS 2018 – 2019 academic year onwards / 2021 calendar
year onwards)**

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What surprise was in store for Lalajee before he left Mokameh Ghat?
2. In “A Day’s Wait,” how does the father dispel the boy’s fear?
3. What is the meaning of the title, Pygmalion?
4. Where did Swami and his friends live?
5. On what condition does Shylock agree to loan money to Antonio?
6. Who was Paulina?
7. What was Gandhiji’s weapon against the British rule?
8. How did Nehru endear himself to everyone?

9. What is meant by “Concord”?
10. How would you thank a stranger who lends you a pen at the post office?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL the questions choosing either (a) or (b)

11. (a) What is the moral of the story, “Little Girls are Wiser than Men”?

Or

- (b) Write a brief description of Klass Van Bommel.

12. (a) What happens during the Ambassador’s garden party in *Pygmalion*?

Or

- (b) Justify the title of the story, *Swami and His Friends*.

13. (a) What reasoning did Arragon use in choosing the casket?

Or

- (b) What is the function of the Nurse in *Romeo and Juliet*?

14. (a) What was the legitimate aspiration of the blacks?

Or

- (b) Describe Toynbee’s second meeting with Nehru.

15. (a) Choose the correct form of the verb that agrees with the subject:
- (i) The cost of cars _____(is, are) high.
 - (ii) Neither the workers nor the manager _____ (was, were) to blame.
 - (iii) Every spring the alumni _____ (gather, gathers) in the Quadrangle for reception.
 - (iv) The crowd at the match _____ (have, has) been standing the entire time.

Or

- (b) Write a paragraph on the proverb, "Well begun is half done."

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

- 16. How were the trips by the two old men fulfilled in their own ways?
- 17. How does *Pygmalion* deal with the issue of social class?
- 18. Consider Romeo and Juliet a tragic love story.
- 19. Write an essay on the personality of Nehru from Toynbee's account.
- 20. Draft a discussion between a teacher and the student on the possible abuses of the Internet.

D-1237

Sub. Code

13043/13243

DISTANCE EDUCATION

B.Sc. (CS)/B.Sc. (CS) (LATERAL ENTRY)
DEGREE EXAMINATION, MAY 2023.

Fourth Semester

JAVA PROGRAMMING

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — ($10 \times 2 = 20$ marks)

Answer ALL questions.

1. Give the examples of web browser.
2. Expand JVM and write few words about it.
3. List out some special operators.
4. What do you mean by decision making?
5. How can you add a variable to a class?
6. What do you mean by wrapper class?
7. Define user defined package.
8. List the thread exception.
9. Give any two applet tags.
10. What do you mean by graphics?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Explain about java and internet.

Or

- (b) Write short note on constants with example.

12. (a) Explain logical operators with an example.

Or

- (b) Discuss about for loop with an example.

13. (a) Briefly explain about nesting of methods.

Or

- (b) How do you implement an interface in java? Explain.

14. (a) Illustrate the steps to stop and block a thread.

Or

- (b) Narrate types of errors.

15. (a) Write a program to draw a line and rectangle.

Or

- (b) Write short note on drawing polygons.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Explain in detail about program structure and write a simple java program.
17. Narrate about operator precedence and its associativity.

18. Discuss in detail about arrays with their types and examples.
 19. Mention the steps to implement the Runnable interface.
 20. Explain about graphics class.
-

D-1238

Sub. Code

13051/13251

DISTANCE EDUCATION

B.Sc.(CS)/B.Sc.(CS)(Lateral Entry) EXAMINATION,
MAY 2023.

Fifth Semester

OPERATING SYSTEMS

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — ($10 \times 2 = 20$ marks)

Answer ALL the questions

1. What do you mean by operating system?
2. Define the term Interrupts.
3. What is concurrent execution in OS?
4. List out the types of Semaphores.
5. What is Deadlock?
6. Comment on safe state and unsafe state.
7. What is meant by Paging?
8. Define Swapping.
9. What is basic file system?
10. What do mean by C-SCAN Scheduling?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL the questions choosing either (a) or (b).

11. (a) List out the components of Operating System.

Or

- (b) What are the states involved in Process Control Block? Explain.

12. (a) How to implement mutual exclusion primitives? Explain.

Or

- (b) Define Semaphores. Explain how it can be used to implement mutual exclusion?

13. (a) Classify the various conditions for Deadlock.

Or

- (b) What are the several criteria in process scheduling policy? Explain.

14. (a) Give a brief note on single contiguous memory allocation.

Or

- (b) Discuss about FIFO Page Replacement.

15. (a) Examine the concept of C-SCAN Scheduling.

Or

- (b) Elucidate the SCAN Scheduling.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Discuss the architecture of Operating System.
 17. Explain the solution to producer – consumer problem.
 18. Describe deadlock avoidance using Banker's algorithm.
 19. Elaborate Paged Memory Allocation.
 20. Illuminate the logical file system access methods.
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D-1239

Sub. Code

13052/13252

DISTANCE EDUCATION

B.Sc.(CS)/B.Sc.(CS)(Lateral Entry)
DEGREE EXAMINATION, MAY 2023.

Fifth Semester

RELATIONAL DATABASE MANAGEMENT SYSTEMS

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — ($10 \times 2 = 20$ marks)

Answer ALL the questions

1. What is Database Management Systems?
2. What is a Data Model?
3. What are Integrity Constraints?
4. Define Domain Relational Calculus.
5. What are Aggregative operators?
6. What is meant by Redundancy?
7. What is meant by Log?
8. What is meant by Buffer Management?
9. Write in short notes on Advanced recovery systems.
10. What is meant by B+ Trees?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions choosing either (a) or (b).

11. (a) Explain in detail about the Query Processor.

Or

- (b) Discuss in detail about the Concept Design with the ER Model.

12. (a) Describe in detail about logical database design.

Or

- (b) What is the difference between Tuple relational calculus and Domain relational calculus?

13. (a) Explain in detail about Disallowing Null values.

Or

- (b) Discuss in detail about Outer Join.

14. (a) Describe in detail about Atomicity and Durability.

Or

- (b) Discuss in detail about Buffer Management.

15. (a) Discuss in detail about Comparisons of File organizations.

Or

- (b) Explain in detail about Intuitions for tree Indexes.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Explain in detail about Database design and ER Model.
 17. Give detail notes on Renaming, Joins and Division.
 18. Discuss in detail about Decompositions.
 19. Discuss in detail about Multiple Granularity.
 20. Describe in detail about Index Sequential Access Methods (ISAM).
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D-1240

Sub. Code

13053/13253

DISTANCE EDUCATION

B.Sc.(CS)/B.Sc.(CS)(Lateral Entry)
DEGREE EXAMINATION, MAY 2023.

Fifth Semester

COMPUTER ARCHITECTURE

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — ($10 \times 2 = 20$ marks)

Answer ALL questions

1. Define: Computer Architecture.
2. What is meant by Operands and Operators in the instruction set?
3. Define: Hazards.
4. List out any two issues in Dynamic hardware Prediction.
5. Define: Instruction level parallelism.
6. List out the features for software speculation in architecture.
7. Define: Dependability.
8. What is meant by I/O Performance?

9. Define: Multiprocessor level parallelism.
10. Define the role of multiprocessor in computer architecture.

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions choosing either (a) or (b).

11. (a) Write short note on : Memory addressing.
Or
(b) Explain: Encoding an instruction set.
12. (a) Describe about the concept of Hardware based speculation.
Or
(b) Write short notes about Limitations of ILP.
13. (a) Discuss the software approaches in instruction level parallelism.
Or
(b) Describe the static multiple issues in VLIW.
14. (a) Briefly explain the performance of main memory.
Or
(b) Write short notes on types of Buses in Memory architecture.
15. (a) Describe about the distributed memory architecture.
Or
(b) Brief the concept of Multithreading in Computer architecture.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Explain different types of operands and operations for media as well as signal processing.
 17. Discuss in about IP6 Micro architecture with neat diagram.
 18. Explain in detail about the architecture for IA 64 and Itanium processor in detail.
 19. Explain about Input Output performance measures.
 20. Discuss about the concept of Multiprocessor and Thread Level Parallelism.
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D-1241

Sub. Code

13061/13261

DISTANCE EDUCATION

B.Sc.(CS)/B.Sc.(CS) (Lateral Entry) DEGREE EXAMINATION,
MAY 2023.

Sixth Semester

COMPUTER NETWORK

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — ($10 \times 2 = 20$ marks)

Answer ALL questions.

1. What are the two interfaces provided by protocols?
2. Mention the different physical media.
3. What are the responsibilities of data link layer?
4. Define flow control.
5. State Virtual Circuit switching.
6. What are the different kinds of Multicast Routing?
7. What are the advantages of using UDP over TCP?
8. What is TCP?
9. What are the operations used in AES?
10. What is the purpose of the S-boxes in DES?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Explain the categories of networks.

Or

- (b) Give a short note on radio transmission and Infra-red transmission.

12. (a) Explain how pure ALOHA and slotted ALOHA differs in allocating multiple competing users in a shared channel.

Or

- (b) Give a brief account on the categories of flow control.

13. (a) Define routing and explain distance vector routing and dynamic routing.

Or

- (b) Explain in short on congestion control mechanisms in network layer.

14. (a) Explain in short about the working principle of SNMP.

Or

- (b) (i) Compare connectionless service & connection-oriented service. (3)
(ii) List the three types of addresses in TCP/IP. (2)

15. (a) Explain the characteristics of block and stream ciphers.

Or

- (b) Explain the RSA algorithm. Compute cipher text for $M=88$, $p=17$ and $q=11$.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Describe the relative advantages and disadvantages of
(a) Terrestrial links (b) Satellite links (c) Optical fiber transmission.
 17. Explain the working of carrier sense multiple access protocol.
 18. Explain in detail on packet switching with a neat diagram.
 19. (a) Elucidate in detail on WWW. (5)
(b) Explain in short on the domain hierarchy and name servers in DNS. (5)
 20. Explain AES encryption and Decryption in detail.
-

D-1242

Sub. Code

13062/13262

DISTANCE EDUCATION

**B.Sc.(CS)/B.Sc.(CS) (Lateral Entry) DEGREE EXAMINATION,
MAY 2023.**

Sixth Semester

VISUAL BASIC PROGRAMMING

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What programming language is VB based on?
2. What are events?
3. How can you select multiple controls?
4. What is the difference between an object and a control?
5. State recursive functions.
6. Which two control & displays graphic images?
7. What menu option should all applications use?
8. List the use of MDI child forms.
9. State ADO.
10. List the use of commit and rollback.

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Give an account on working with forms.
Or
(b) Describe about the making EXE file.
12. (a) Discuss about the declaring and using variables.
Or
(b) Write a program using Frame.
13. (a) Explain about the Date and Time functions.
Or
(b) Evaluate the sub main procedure.
14. (a) How do you adding code to menu?
Or
(b) Describe about the basic building in MDI form.
15. (a) How do you accessing Microsoft access files?
Or
(b) Illustrate the ADO object model?

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Elaborate the working with VB projects.
17. Write a VB program using While-wend control structure.
18. Evaluate the indexing and event handling.
19. How do you creating menu in VB program?
20. Discuss about adding records, editing records and closing the database connection.

D-1243

Sub. Code

13063/13263

DISTANCE EDUCATION

**B.Sc.(CS)/B.Sc.(CS) (Lateral Entry) DEGREE EXAMINATION,
MAY 2023.**

Sixth Semester

SOFTWARE ENGINEERING

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define Software Engineering.
2. Write a short note on Waterfall Model.
3. Write a function of Elaboration.
4. Define Cardinality.
5. What is known as Information Hiding?
6. Why is Architecture Important?
7. What is called as Testing?
8. How many ways software measurement can be categorized?
9. Describe the characteristics of Software Risks.
10. Define a Quality Assurance System.

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Write a note on Customer Myths.

Or

- (b) Describe about Team Software Process (TSP).

12. (a) Write a short note of Elicitation function in requirement engineering task.

Or

- (b) Illustrate Sequence Diagram for the Safe Home security function.

13. (a) List out the characteristics of a well-formed Design Classes.

Or

- (b) Explain about common design issues in interface design.

14. (a) Explain about Debugging Process.

Or

- (b) Explain about Object-Oriented Metrics.

15. (a) Give notes on the RMMM Plan.

Or

- (b) Write down the guidelines for Formal Technical Reviews.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Write brief notes on the Unified Process.
 17. Explain about Data Modeling Concepts.
 18. Illustrate the Golden Rules for Interface Design.
 19. Discuss on Integration Testing.
 20. Explain about Software Quality Assurance.
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D-4072

Sub. Code

**11A/13711/
0111/0311A**

DISTANCE EDUCATION

Common for B.A./B.Sc./B.B.A./B.B.A. (Banking)/B.C.A./M.B.A
(5 Years Integrated) DEGREE EXAMINATION, MAY 2024.

First Semester

Part I : TAMIL Paper – I

(CBCS 2018 – 2019 Academic Year onwards/
2021 Calendar Year Onwards)

Time : Three hours

Maximum : 75 marks

பகுதி அ — (10 × 2 = 20 மதிப்பெண்கள்)

அனைத்து வினாக்களுக்கும் விடையளிக்க.

1. கண்ணதாசனின் இயற்பெயரைத் தருக.
2. பட்டுக்கோட்டை கல்யாணசுந்தரம் பிறந்த ஊர் யாது?
3. பாரதியார் பாடிய காவியங்கள் இரண்டினைக் குறிப்பிடுக.
4. பாரதிதாசனின் புனைப்பெயர்களைச் சுட்டுக.
5. கு.பா.ராஜகோபாலன் எக்காரணத்தால் அரசுப் பணியை விட்டார்?
6. இருமுறை சாகித்திய அகாதமி விருது பெற்ற தமிழ்க்கவிஞர்?
7. 'நேயர் விருப்பம்' என்ற கவிதை நூலின் ஆசிரியர்?
8. சிலப்பதிகாரத்தில் அமைந்துள்ள காதைகளின் எண்ணிக்கை?
9. எப்பெயரில் கம்பர் காப்பியம் படைத்தார்?
10. தேம்பாவணி – பொருள் விளக்கம் தருக.

பகுதி ஆ — (5 × 5 = 25 மதிப்பெண்கள்)

பின்வரும் வினாக்களுக்கு ஒரு பக்க அளவில் விடை தருக.

11. (அ) 'குருவாயூருக்கு வாருங்கள்' எனக் கண்ணதாசன் அழைக்குமாற்றை விளக்குக.

(அல்லது)

- (ஆ) பட்டுக்கோட்டை கல்யாணசுந்தரத்தின் இலக்கியப் பணிகளைச் சுட்டியுரைக்க.

12. (அ) கண்ணனின் விளையாட்டுகளைப் பாரதியார் எங்ஙனம் பாடுகிறார்?

(அல்லது)

- (ஆ) பெ. தூரன் 'தளர்க்கீற்று' என்று எதனைக் குறிப்பிடுகிறார்?

13. (அ) வல்லிக்கண்ணனின் வாழ்க்கைக் குறிப்பைச் சுருக்கி வரைக.

(அல்லது)

- (ஆ) மீராவின் தனித்துவத்தை 'பதினைந்து' என்ற கவிதையின் வழிக் கூறுக.

14. (அ) சர்ப்பயாகம் கவிதையில் பேசப்படும் பாம்புகளின் பெயர்களை எழுதுக.

(அல்லது)

- (ஆ) தலைவி கண்ணுக்கு மை எழுதாமைக்கான காரணங்களை எழுதுக.

15. (அ) வழக்குரை காதையின் செய்திகளைத் தொகுத்துரைக்க.

(அல்லது)

- (ஆ) இயேசு அனுபவித்த துன்பங்களைச் சூசை கூறுமாற்றை விளக்குக.

பகுதி இ — (3 × 10 = 30 மதிப்பெண்கள்)

பின்வரும் வினாக்களில் மூன்றனுக்குக் கட்டுரை வடிவில் விடை
தருக.

16. கண்ணனின் பெருமைகளைக் கண்ணதாசன் பாடல்கள் வழிக்
கட்டுரைக்க.
17. பாரதியார் 'திருப்பள்ளி எழுச்சி' பாடுமாற்றை விளக்கி வரைக.
18. நோய்க்கான அறிகுறிகள் பற்றி நாமக்கல் கவிஞர்
கூறுவனவற்றை விவரிக்க.
19. கம்பராமாயண 'மந்திர படலம்' கூறும் செய்திகளைத்
தொகுத்துரைக்க.
20. நபிகள் நாயகம் ஈச்சங்குலை வரவழைத்தத் திறத்தை
எடுத்துரைக்க.

D-4073

Sub. Code

11B/0311B

DISTANCE EDUCATION

Common for B.A./B.Sc./B.B.A./B.B.A (Banking)/B.C.A./
M.B.A.(5 Year Integrated) DEGREE EXAMINATION,
MAY 2024.

First Semester

Part I — COMMUNICATION SKILLS – I

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Mention different types of Communication.
2. Why anger is a psychological barrier to communication?
3. Define oral communication.
4. Explain falling intonation with an example.
5. What is a business letter?
6. What are the four types of sentence structure?
7. Define 'Essay'.
8. What are gestures?
9. What are the different types of Report?
10. Define 'Group Discussion'.

PART B — (5 × 5 = 25 marks)

Answer ALL the questions, choosing either (a) or (b).

11. (a) Explain the principles of Effective Communication.

Or

- (b) Discuss various forms of oral communication.

12. (a) Explain the importance of facial expressions and eye contact in communication.

Or

- (b) Rewrite as directed :

- (i) As he was ill, he couldn't attend the class.
(Change into compound sentence)
- (ii) It was a rainy day and he remained at home.
(Change into simple sentence)
- (iii) When he saw a snake, he ran away. (Change into compound sentence)
- (iv) He finished his home work and he went out to play. (Change into complex sentence)
- (v) He wrote a novel (Analyse this sentence)

13. (a) Explain the salient features of an essay.

Or

- (b) Mention some characteristics of an Effective sentence.

14. (a) Explain different types of Reports.

Or

- (b) Discuss the importance of group discussion.

15. (a) How will you organise a meeting?

Or

- (b) Explain the various steps involved in preparing application for Employment and curriculum – vitae.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Describe the process of communication.
17. Discuss the importance of words and phrases in written communication.
18. Prepare an application for the post of Asst. Professor in English at Axc college Tiruchi, Attach your curriculum vitae.
19. Prepare a technical report about an accident in a company.
20. Prepare a Group Discussion on the topic “Uses and misuse of mobile phones”.
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D-4074

Sub. Code

**12/13712/
0112/0312**

DISTANCE EDUCATION

**COMMON FOR B.A./B.Sc./B.B.A./B.B.A. (Banking)/
B.C.A./M.B.A. (5 Year Integrated) DEGREE EXAMINATION,
MAY 2024.**

First Semester

Part II — ENGLISH PAPER – I

**(CBCS 2018 – 2019 Academic Year Onwards /
CBCS 2021 Calendar Year onwards)**

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. How does water help in the formation of fertile lands?
2. Was Mr. Packletide successful in her mission of killing a tiger?
3. What changes do Narwa and Haria follow during winter and summer regarding their profession?
4. How does Joad praise our civilization?
5. Write the dangers of our civilization as pointed out by Joad.
6. Who is considered the father of medicine?

7. Put the verbs in the brackets in the correct tense :
- (a) He _____ (work) for four hours when I _____ (arrive) here.
- (b) At this moment I _____ (do) an exercise on tenses.
8. Fill in the blanks with Prepositions :
- (a) I walked _____ the street.
- (b) He always keeps the keys _____ the pillow.
9. Fill in the blanks with suitable Articles :
- (a) How does _____ wounded tiger behave?
- (b) Which road is _____ right one?
10. Join the given sentences to form Compound Sentences :
- (a) My uncle is coming. My aunt is coming.
- (b) I knocked at the door. No one answered.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) How does soil erosion happen and what are its main causes?

Or

- (b) How did Miss. Mebbin manage to get her week-end cottage? Why did she plant so many tiger lilies in her garden?

12. (a) Why does Jim Corbett consider Haria as rescuer of Narwa in 'A Deed of Bravery'?

Or

- (b) What is the advice given by the author in 'On Letter Writing'?
13. (a) Why is our civilization more secure than previous civilizations according to C.E.M. Joad?

Or

- (b) Write a short summary of 'A Hero on Probation' by B.R. Nanda.
14. (a) Write a letter to the Principal of your college pointing out some of the difficulties you and other students have experienced in the college.

Or

- (b) Rewrite the following questions in Indirect Speech. Use the Simple Past Tense for the reporting verb :
- (i) What is your name?
- (ii) Where were you born?
- (iii) How big is your family?
- (iv) What time is it?
- (v) How often do you go to theatre?
15. (a) Rewrite the following sentences in the Passive Voice :
- (i) The thief pushed open the door.
- (ii) They have solved the mystery at long last.

- (iii) We did not expect to win.
- (iv) Somebody drove us round Delhi in a big car.
- (v) His loud cries woke me at about midnight.

Or

- (b) Write a paragraph on the following topic.
'Tele-play I enjoyed'.

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

- 16. How does C.V. Raman explain the value of water in his essay, 'Water-the Elixir of life'?
- 17. Analyse the elements of satire in 'Mrs. Packletide's Tiger'.
- 18. Discuss the dangers of drug abuse as pointed out by Hardin B. Jones.
- 19. Write a paragraph on using the hints given below :

Three friends – set out on a journey pass through a forest – find a purse of gold – each one desires to possess the entire gold – one of them is sent to buy food – the other two plan to kill him – the first one brings poisoned food – the other two kill him on his arrival – eat the food and die – moral.

- 20. Build a dialogue between you and the librarian. You have gone to the library – search for a particular book – since not found you seek help from the librarian.

D-4191

Sub. Code

13013

DISTANCE EDUCATION

**B.Sc. (Computer Science) DEGREE EXAMINATION,
MAY 2024.**

First Semester

PROGRAMMING IN C

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What is arithmetic expression?
2. Comment on C tokens.
3. Define – If statement.
4. What is meant by reading character?
5. Define function calls.
6. What is mean by recursion?
7. List out the basics of points.
8. How to declare a pointer in C?
9. Define error handling method in C.
10. How to defining files in C?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Explain the importance of C programming.

Or

- (b) Describe about evaluation of expression.

12. (a) How to reading and writing strings in C? Explain in detail.

Or

- (b) Write a note on decision making and branching Statements in C.

13. (a) Briefly explain about declaration of function in C.

Or

- (b) Explain about Unions in C.

14. (a) Discuss about address of function.

Or

- (b) Write a note on address of variables.

15. (a) Give a short note on opening and closing files.

Or

- (b) Explain about error handling i/o operation.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Discuss the Basic structure of C program.
 17. Briefly explain about arrays in C with example program.
 18. Explain about User defined functions in C.
 19. Discuss about pointer in C with example program.
 20. Illustrate on file concepts in C.
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D-4075

Sub. Code

21 A/0321 A

DISTANCE EDUCATION

Common for B.A./B.Sc./B.B.A/B.B.A. (Banking)/B.C.A/M.B.A
(5 Year Integrated) DEGREE EXAMINATION, MAY 2024.

Second Semester

Part I — TAMIL – Paper — II

(CBCS 2018-19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

பகுதி அ — (10 × 2 = 20 மதிப்பெண்கள்)

அனைத்து வினாக்களுக்கும் விடையளிக்க.

1. தேம்பாவணியின் காப்பியத் தலைவன் பெயரைக் குறிப்பிடுக.
2. நீலபத்மநாபன் எழுதிய நாவல்கள் இரண்டினைக் குறிப்பிடுக.
3. நூலிலாட்டு – சிறுகுறிப்பு வரைக.
4. முதலெழுத்துக்களைச் சுட்டிக் கூறுக.
5. வேற்றுமைப் புணர்ச்சி என்றால் என்ன?
6. ‘ஆசிய ஜோதி’ என்னும் நூலின் ஆசிரியர்?
7. தனித்தமிழ் இயக்கம் கண்ட அறிஞர்?
8. முதல் ஆழ்வார்கள் யாவர்?
9. ‘உதிரிப்பூக்கள்’ என்னும் திரைப்படத்தை இயக்கியவர்?
10. ‘சூடாமணி’ என்னும் காப்பியத்தை இயற்றியவர்?

பகுதி ஆ — (5 × 5 = 25 மதிப்பெண்கள்)

பின்வரும் வினாக்களுக்கு ஒரு பக்க அளவில் விடை தருக.

11. (அ) சாந்தி கேட்ட வேத உரையை வீரமாமுனிவர் எங்ஙனம் விவரிக்கின்றார்?

(அல்லது)

(ஆ) வீரமாமுனிவர் வெளிப்படுத்தியுள்ள தமிழ்மரபுகளை எடுத்துரைக்க.

12. (அ) நீலபத்மநாபனின் 'வானவீதியில்' சிறுகதைச் சுருக்கத்தை எழுதுக.

(அல்லது)

(ஆ) தாடகை வதையால் இராமன் பெற்ற பயன்களைச் சுட்டியுரைக்க.

13. (அ) சார்பெழுத்துக்களைச் சான்றுகளுடன் விளக்கி வரைக.

(அல்லது)

(ஆ) அன்மொழித் தொகையின் இலக்கணத்தை விளக்கி வரைக.

14. (அ) புதுக்கவிதையின் வளர்ச்சி வரலாற்றைச் சுருக்கி எழுதுக.

(அல்லது)

(ஆ) கவிஞர் கண்ணதாசனின் கவித்திறத்தை விளக்கி வரைக.

15. (அ) ஞானசம்பந்தரின் பக்தித்திறத்தைப் பாராட்டியுரைக்க.

(அல்லது)

(ஆ) தமிழ் வானொலிகளின் சமூகப் பணிகளைப் புலப்படுத்துக.

பகுதி இ — (3 × 10 = 30 மதிப்பெண்கள்)

பின்வரும் வினாக்களில் மூன்றனுக்குக் கட்டுரை வடிவில் விடை தருக.

16. இயேசுபிரான் பொறை, மிடி, தாழ்வு கொண்டதன் காரணங்களை விளக்குக.
17. 'கருணைமனு' சிறுகதை உரைக்கும் கருத்துக்களைக் கட்டுரைக்க.
18. கம்பன் பேசியுள்ள புறத்திணைச் செய்திகளைத் தொகுத்துரைக்க.
19. தமிழில் பிறமொழிச் சொற்கள் ஆளும் முறைகளைப் புலப்படுத்துக.
20. பெரியபுராணம் பேசும் இல்லற மாண்பை எடுத்துரைக்க.

D-4076

Sub. Code

21B/0321B

DISTANCE EDUCATION

Common for B.A./B.Sc./B.B.A./B.B.A (Banking)/B.C.A./M.B.A.
(5 Year Integrated) DEGREE EXAMINATION, MAY 2024.

Second Semester

Part I — COMMUNICATION SKILLS – II

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define the code of communication skills.
2. Why is timing important in communication?
3. What are the essential elements of communication process?
4. State the uses of feedback.
5. What is front vowel?
6. What are personal skills?
7. What is the most important component of a language?
8. What is the key sentence of the paragraph?
9. Who published newsletters?
10. What is a proposal?

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) List the skills required in oral communication.

Or

- (b) Write about the merits and demerits of written communication.

12. (a) Describe back vowels.

Or

- (b) What is the difference between personal and interpersonal skills?

13. (a) What are the different types of soft skills?

Or

- (b) What are the rules to be followed while greeting or responding to a greeting?

14. (a) Write a note on passive listening.

Or

- (b) What are the characteristics of Technical Writing?

15. (a) What is Editing? Discuss its various types.

Or

- (b) What are the essential parts of a business letter?

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Explain the various elements of communication skills.
 17. Discuss the ten commandments of Good speaking.
 18. Explain personal and inter-personal skills.
 19. Discuss the different skills required during interview.
 20. Draft a Good Resume.
-

D-4077

Sub. Code

**22/13722/
0122/0322**

DISTANCE EDUCATION

Common for B.A./B.Sc./B.B.A./B.B.A. (Banking)/B.C.A./M.B.A.
(5 Years Integrated) DEGREE EXAMINATION, MAY 2024.

Second Semester

Part II — ENGLISH PAPER – II

(CBCS 2018 – 2019 Academic Year Onwards/
CBCS 2021 Calendar Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Write the rhyme scheme of Shakespearean sonnet.
2. What is the message of 'Grecian urn'?
3. Who is Andrea Del Sarto?
4. Who is the speaker of the poem 'Strange' Meeting and explain the significance?
5. Explain the title 'Gitanjali'.
6. Which of the two roads did the poet choose and why?
7. The poet says, 'Let us set our catamarans free'. What does it mean?
8. Who is Portia in the drama 'The Merchant of Venice'?
9. What is the structure of an essay?
10. List any two methods of note-making.

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Write a critical note on Shakespearean sonnet.

Or

- (b) What qualities do you find in 'Andrea Del Sarto'?

12. (a) What are the Romantic characteristics in the poem 'Grecian urn'?

Or

- (b) How is Tagore's philosophy of life reflected in 'Gitanjali'?

13. (a) Where did the two roads diverge? What was the difficulty experienced by the poet?

Or

- (b) Write a critical appreciation of the poem the 'Strange Meeting'.

14. (a) Sketch the character of Shylock.

Or

- (b) How does the poet describe his experience from the Westminster Bridge?

15. (a) Write down the uses of note-making.

Or

- (b) Explain the two classification of Report Writing.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Discuss the ultimate tone of the poem 'Andrea Del Sarto'.
 17. How does Keats 'Grecian Urn' affect our thoughts?
 18. Describe Portia's argument in 'The Merchant of Venice'.
 19. Write an essay on 'The Road Not Taken'.
 20. Write a critical note on 'Forest in India'.
-

D-4192

Sub. Code

13023

DISTANCE EDUCATION

**B.Sc. (Computer Science) DEGREE EXAMINATION,
MAY 2024.**

Second Semester

OBJECT ORIENTED PROGRAMMING AND C++

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What is Data Abstraction?
2. Define hierarchy.
3. Comment on class objects.
4. Define Constructors in C++.
5. What is meant by abstract classes?
6. Define hybrid inheritance.
7. How to closing files?
8. Write a short note on random access file.
9. Define Class Template.
10. What is exception in class templates?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Explain the evolution of object-oriented language and paradigm.

Or

- (b) Describe about custom / user – defined manipulators.

12. (a) Write about private member functions.

Or

- (b) Difference between copy constructor and dynamic constructor.

13. (a) Briefly explain about multiple and multilevel inheritance.

Or

- (b) Differentiate virtual functions and pure virtual functions.

14. (a) Discuss about operator overloading in C++.

Or

- (b) Write about hierarchy of file stream classes.

15. (a) Give a short note on Exceptions in constructors and destructors.

Or

- (b) Explain Basics of exception handling method.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Discuss in detail about OOPS Concepts.
 17. Briefly explain about functions and its types in C++ with example program.
 18. Explain about Inheritance and its types.
 19. Write a C++ Program to implement Stream Classes.
 20. Discuss about exception handling and throwing mechanism.
-

D-4078

Sub. Code

31A/13731

DISTANCE EDUCATION

**Common for B.A/B.Sc./B.C.A. DEGREE EXAMINATION,
MAY 2024.**

Third Semester

Part I : TAMIL — Paper III

**(CBCS 2018-19 Academic Year Onwards/CBCS 2021 Calendar
Year onwards)**

Time : Three hours

Maximum : 75 marks

பகுதி அ — (10 × 2 = 20 மதிப்பெண்கள்)

அனைத்து வினாக்களுக்கும் விடையளிக்க.

1. விரிச்சி கேட்டல் என்றால் என்ன?
2. மதுரைக்காஞ்சியின் ஆசிரியரைக் கூறுக.
3. அலர் - பொருள் தருக.
4. ஐங்குறுநூற்று வைப்புமுறையில் முதலில் அமைந்துள்ள திணை.
5. அகநானூற்றின் மூன்று பகுப்புகளை எழுதுக.
6. கையறுநிலை என்பதை விளக்குக.
7. 'நான்மணிக்கடிகை' பெயர்க்காரணம் தருக.
8. திருக்குறளின் சிறப்புப் பெயர்கள் இரண்டினை எழுதுக.
9. இராசராசசோழன் நாடகத்தின் ஆசிரியர்.
10. 'சுவடுகள்' நாவலின் கதைக்கரு யாது?

பகுதி ஆ — (5 × 5 = 25 மதிப்பெண்கள்)

பின்வரும் வினாக்களுக்கு ஒரு பக்க அளவில் விடை தருக.

11. (அ) ஐங்குறுநூற்றைப் பாடியோர் வரலாற்றை எழுதுக.

(அல்லது)

(ஆ) கபிலரின் கவித்திறத்தைச் சான்றுகள் தந்து விளக்குக.

12. (அ) மஞ்ஞைப் பத்துப் பேசும் செய்திகளை விவரிக்க.

(அல்லது)

(ஆ) தலைவன் தன் நெஞ்சிற்குரைத்த குறுந்தொகைப் பாடல்களைச் சுட்டுக.

13. (அ) சிலப்பதிகாரச் சாயல் தரும் நற்றிணைப் பாடலைப் புலப்படுத்துக.

(அல்லது)

(ஆ) கிள்ளி வளவனை நப்பசலை எங்ஙனம் புகழ்ந்துரைக்கிறார்?

14. (அ) தூக்கமின்மை குறித்து நான்மணிக்கடிகை பேசுமாற்றை எழுதுக.

(அல்லது)

(ஆ) விமலாதித்தன் பாத்திரத்தின் முக்கியத்துவத்தைப் புலப்படுத்துக.

15. (அ) நாவலில் கதைப்பின்னல் அமையுமாற்றை விளக்குக.

(அல்லது)

(ஆ) சுவடுகள் நாவலின் 'ராசத்தி' பாத்திரப் படைப்பை விவரிக்க.

பகுதி இ — (3 × 10 = 30 மதிப்பெண்கள்)

பின்வரும் வினாக்களில் மூன்றனுக்குக் கட்டுரை வடிவில் விடை தருக.

16. முல்லைப்பாட்டு உரைக்கும் பாசறை நிகழ்வுகளைக் கட்டுரைக்க.
17. அகநானூற்றுச் சேந்தன்பூதனார் பாடல்களை எடுத்துரைக்க.
18. திருக்குறள் சிறப்புகளை நும் பாடப் பகுதியால் கருத்துரைக்க.
19. இராசராசசோழன் நாடகத்தின் கதைக்கோப்பை விவரிக்க.
20. சுவடுகள் நாவல் பேசும் சமூக அவலங்களைத் தொகுத்துரைக்க.

D-4079

Sub. Code

31B

DISTANCE EDUCATION

**Common for B.A./B.Sc./B.C.A. DEGREE EXAMINATION,
MAY 2024.**

Third Semester

Part I — HUMAN SKILLS DEVELOPMENT – I

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Name five types of Human skills.
2. Define 'Interpersonal Behaviour'.
3. What is positive approach?
4. Why interruption is kind of irritative behaviour?
5. Why is feed back in social life is necessary?
6. Who told about the power of concentration on duties in The Bhagavat Geeta?
7. Who is an Introvert?
8. Define Self Efficacy.
9. Explain Decision-making skills.
10. Define Stress.

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Is self-respect important to achieve one's goal?

Or

- (b) Define the power of advanced thinking.

12. (a) Is maintaining relationship important in life? Why?

Or

- (b) Define non-verbal communication and its importance.

13. (a) Bring out the benefits of time management in goal setting.

Or

- (b) Is decision-making an important skill in life?

14. (a) What are the strategies found in negotiation skill?

Or

- (b) What are the basic qualities of a leader?

15. (a) What are the ways to develop relationship with others?

Or

- (b) Is counseling necessary against stress complaint?

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Discuss various methodologies of strategies to cope up with conflict.
 17. Describe the various types of attitudes.
 18. Elaborate all types of telephone etiquettes.
 19. Discuss the importance of duty, consciousness in life.
 20. Describe mind level and its functions.
-

D-4080

Sub. Code

132/13732

DISTANCE EDUCATION

**Common for B.A./B.Sc./B.C.A. DEGREE EXAMINATION,
MAY 2024.**

Third Semester

Part II — ENGLISH PAPER – III

**((CBCS 2018 – 2019 Academic Year Onwards)/
(CBCS 2021 Calendar Year Onwards))**

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. How does Swami try to escape from sleeping alone in the office?
2. What is the Manager's advice to Foreman?
3. Why does Lomove want to get married?
4. How was Eddie killed?
5. Who is responsible for Sergeant Smith's death?
6. How does Mita bring change in Yassin?
7. Define conjunction with example.

8. Do as directed :
Sam is more intelligent than Peter (Into positive).
9. Define Minutes.
10. State the purposes of notice.

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Comment on the end of the story “The Post Master”.

Or

- (b) How do the Loiseles manage to replace the necklace?

12. (a) How does Philip threaten Uncle James in dream?

Or

- (b) What do you learn from the play “The Silver Idol”?

13. (a) Describe the pathetic condition of Pierre and Jean.

Or

- (b) Why did the captain kill the girl’s husband?

14. (a) Why do the friends deviate from the promise in “Reunion”?

Or

- (b) What is Gupta’s attitude towards refugees in the beginning?

15. (a) Write short notes on adverb.

Or

- (b) Describe your happy memory.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Examine the relationship between the post master and Ratan.
17. The Verger is a great opportunist – Discuss.
18. Discuss “Progress” as an anti-war play.
19. How does Asif Currimbhoy picture the pathetic condition of the refugees?
20. Do as directed :
- (a) Gold is the most expensive of all the metals. (Into positive)
 - (b) Chennai is bigger than many other cities. (Into Superlative)
 - (c) No other animal is as dangerous as the man. (Into comparative)
 - (d) Raju is one of the best batsman in the team. (Into positive)
 - (e) The train runs faster than cars. (Into positive)

D-4193

Sub. Code

13033/13233

DISTANCE EDUCATION

**B.Sc. (Computer Science)/ B.Sc.(CS)(Lateral Entry)DEGREE
EXAMINATION, MAY 2024.**

Third Semester

DATA STRUCTURES AND ALGORITHMS

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — ($10 \times 2 = 20$ marks)

Answer ALL questions.

1. How does one measure the efficiency of an Algorithm?
2. What is an array?
3. What is doubly linked list? Represent it with a diagram.
4. Represent the following infix expression $a + b * c - d$ into postfix notation
5. Define Height of tree?
6. What are the applications of binary tree?
7. Analyze the need for middle value in binary search
8. Define Searching
9. What is the time complexity of selection sort?
10. What is the principle behind quick sort

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Illustrate the Classification of Data Structures.

Or

- (b) Analyze the need for computing the time and space complexity.

12. (a) Explain in detail about the Insert operation in a Queue.

Or

- (b) Describe in detail about the Circular Linked List.

13. (a) Define the following with an example:

- (i) Full Binary Tree
- (ii) Complete Binary Tree
- (iii) Skewed Binary Tree

Or

- (b) Write in detail about the In-order traversal in a binary tree.

14. (a) What are the advantages of binary search over sequential search?

Or

- (b) Illustrate with an example the Linear Search Technique.

15. (a) Explain and write the procedure for Selection sort.

Or

- (b) Write in detail about Radix Sort.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Explain in detail the concept and the representation of an Array.
17. Describe with an example the doubly linked list technique.
18. Write the Recursive procedure to perform Post-order traversal of a binary tree
19. Illustrate with an example about the binary search technique in detail.
20. Write an algorithm to implement insertion sort with suitable example.
-

D-4081

Sub. Code

41A/13741

DISTANCE EDUCATION

**COMMON FOR B.A./B.Sc./B.C.A. DEGREE EXAMINATION,
MAY 2024.**

Fourth Semester

Part I : TAMIL PAPER – IV

**(CBCS 2018 – 19 Academic Year onwards /
2021 Calendar Year onwards)**

Time : Three hours

Maximum : 75 marks

பகுதி அ — (10 × 2 = 20 மதிப்பெண்கள்)

அனைத்து வினாக்களுக்கும் விடையளிக்கவும்.

1. குற்றியலுகரம் என்றால் என்ன?
2. தளையின் வகைகள் யாவை?
3. கலிப்பாவின் உறுப்புகளைக் கூறுக.
4. அகப்பொருளின் பாகுபாடுகள் யாவை?
5. வஞ்சினக் காஞ்சி என்றால் என்ன?
6. பொருள் அணிகள் எத்தனை வகைப்படும்?
7. சொல் அணிகள் எத்தனை வகைப்படும்?
8. அகநானூற்றைத் தொகுத்தவர் யார்?
9. சேர மன்னர்களின் சிறப்பைக் கூறும் எட்டுத் தொகை நூல் எது?
10. சீவக சிந்தாமணி எத்தனை இலம்பகங்களைக் கொண்டது?

பகுதி ஆ — ($5 \times 5 = 25$ மதிப்பெண்கள்)

பின்வரும் வினாக்களுக்கு ஒரு பக்க அளவில் விடை தருக.

11. (அ) வெண்பாவின் பொது இலக்கணம் கூறி அதன் வகைகளைச் சுட்டுக.

(அல்லது)

(ஆ) கண்ணி இலக்கண வகைமையைச் சான்றுடன் விளக்குக.

12. (அ) சீர் என்றால் என்ன? விளக்குக.

(அல்லது)

(ஆ) ஆசிரியப்பாவில் பயின்று வரும் தளைகள் குறித்து எழுதுக.

13. (அ) வரைவு கடாதலின் வகைகளை விளக்குக.

(அல்லது)

(ஆ) குறிப்பு வேற்றுமை அணி குறித்து எழுதுக.

14. (அ) அகநானூற்றின் சிறப்பினை விவரி.

(அல்லது)

(ஆ) ஆற்றுப்படை நூல்களின் செவ்வியல் தன்மையை விளக்குக.

15. (அ) திருக்குறளின் பொதுமைக் கோட்பாட்டை விவரி.

(அல்லது)

(ஆ) மௌன மயக்கங்கள் காவியம் உணர்த்தும் சமூகச் செய்திகளைக் கூறுக.

பகுதி இ — ($3 \times 10 = 30$ மதிப்பெண்கள்)

பின்வரும் வினாக்களுள் மூன்றனுக்குக் கட்டுரை வடிவில் விடை தருக.

16. புதுக்கவிதையில் படிமத்தின் பங்களிப்பு குறித்து எழுதுக.

17. கற்புக் காலப் பிரிவுகள் குறித்து எழுதுக.

18. உவமை அணியின் விளக்கம் கூறி வகைகளை விளக்குக.
 19. எட்டுத்தொகையில் அகம் பற்றிய நுல்களை எழுதி அதன் சிறப்பியல்புகளை விவரிக்க.
 20. பாண்டியன் பரிசு காவியத்தில் வெளிப்படும் புரட்சிகரமான கருத்தினை எழுதுக.
-

D-4082

Sub. Code

41B

DISTANCE EDUCATION

**COMMON FOR B.A./B.Sc./B.C.A. DEGREE EXAMINATION,
MAY 2024.**

Fourth Semester

Part I – HUMAN SKILLS DEVELOPMENT – II

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. What are the types of communication?
2. What is WIIFM?
3. What is the role of critical thinking?
4. What are Soft Skills?
5. Give the definition for 'Motivation'.
6. Mention any two steps used to develop vision of a leader.
7. Define Technical Communication.
8. Give the meaning of Managerial Skill.
9. What do you mean by Multi-Tasking?
10. What is emotional discomfort?

SECTION B — (5 × 5 = 25 marks)

Answer ALL the questions, choosing either (a) or (b).

11. (a) What are the common barriers to communication?

Or

- (b) What is the importance of Bloom's taxonomy of thinking?

12. (a) Write a note on Democratic Style of leadership.

Or

- (b) Write a note on Bureaucratic Style of a leader

13. (a) What are the components you should have to get a positive and healthy personality?

Or

- (b) What are the types of organisational skills?

14. (a) Discuss the skills involved in handling the problems.

Or

- (b) Write a note on problems solving skills.

15. (a) Write a short note on Time Management Skills.

Or

- (b) Write some of the behavioural changes that could be observed in a person who is affected with stress.

SECTION C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Discuss the role of a counsellor.
 17. Write a model for a speech on orientation.
 18. Elucidate the differences between Hard and Soft Skills.
 19. Explain Cooperative Learning Skills.
 20. Discuss the importance of Problem Solving Skills.
-

D-4083

Sub. Code

42/13742

DISTANCE EDUCATION

**COMMON FOR B.A./B.Sc./B.C.A. DEGREE EXAMINATION,
MAY 2024.**

Fourth Semester

Part II — ENGLISH PAPER – IV

**(CBCS 2018 – 2019 Academic Year Onwards/
CBCS 2021 Calendar Year Onwards)**

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What happened to the partner when Lalajee returned after his journey?
2. How was the boy suffering in 'A Day's Wait'?
3. Why does the crowd hiding from the rain get so upset with Higgins for taking notes of the Flower Girl's speech?
4. Why is Romeo exiled?
5. What is the story, *Swami* and *Friends* about?
6. Who are Polixenes and Leontes in *The Winter's Tale*?
7. What reason does Antonio give for being sad in the opening scene of the play, *The Merchant of Venice*?
8. What does the Nurse advise Juliet to do after Romeo is exiled?

9. Add Tag Questions :
- (a) Everyone has come, _____.
 - (b) Let's go home, _____.
10. Correct the following sentences :
- (a) A crate of apples and organs have been delivered.
 - (b) Either the husband or the wife have to go.

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Describe Jim Corbett's experience with Lalajee.
- Or
- (b) Write a short summary of 'Little Girls Wiser than Men'.
12. (a) Describe the Stoic nature of the boy in 'A Day's Wait'.
- Or
- (b) What is the Pygmalion Myth?
13. (a) How does Swami navigate his desires for community and for freedom?
- Or
- (b) Discuss and analyse Leontes's jealousy.
14. (a) Discuss the relationship between Jessica and Shylock.
- Or
- (b) Apart from clashing with Tybalt, what role does Mercutio play in the story, *Romeo and Juliet*?

15. (a) How does Toynbee glorify Nehru?

Or

- (b) Expand – ‘Pen is mightier than sword’.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Analyse ‘Two Old Men’ by Leo Tolstoy.
17. Sketch the character of Swami.
18. Discuss the relationships between parents and children in *Romeo and Juliet*.
19. Examine the courtroom scene in *The Merchant of Venice*. How does it illuminate the play’s major themes?
20. Build a dialogue between father and son. Son requests father to allow him to go abroad for higher studies.
-

D-4194

Sub. Code

13043/13243

DISTANCE EDUCATION

B.Sc. (CS) / B.Sc. (CS) (Lateral Entry) DEGREE
EXAMINATION, MAY 2024.

Fourth Semester

JAVA PROGRAMMING

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — ($10 \times 2 = 20$ marks)

Answer ALL questions.

1. Define web browser.
2. List out some features of Java.
3. Write about the arithmetic operators.
4. What is meant by operator precedence and associativity?
5. Write a note on final classes.
6. How will you extend interfaces?
7. List out various system packages in Java.
8. Define thread.
9. Write about applet tag and its attributes.
10. List the importance of graphics class in Java.

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Demonstrate the Java program structure with example.

Or

- (b) Explain how JVM works.

12. (a) Illustrate the conditional operator with Java program.

Or

- (b) Explain the IF ... Else and Nested IF ladder with examples.

13. (a) Illustrate on interface in Java.

Or

- (b) Elaborate the strings in Java with example.

14. (a) Outline the thread synchronization.

Or

- (b) Inspect how to manage errors and exception in Java.

15. (a) Elaborate the Applet Programming.

Or

- (b) Elaborate on adding applet to an html file with necessary example.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Explain various data types in Java and type casting with examples.
 17. Illustrate various looping statements in Java.
 18. List out various inheritance in Java and explain about interfaces with example.
 19. Explain Java thread life cycle.
 20. Illustrate methods for drawing line, rectangle, circle and ellipse.
-

D-4195

Sub. Code

13051/13251

DISTANCE EDUCATION

**B.Sc.(CS)/B.Sc.(CS) (Lateral Entry) DEGREE EXAMINATION,
MAY 2024.**

Fifth Semester

OPERATING SYSTEMS

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Why we are calling operating system is a resource manager?
2. What is Process Control Block?
3. What do you mean by Mutual Exclusion?
4. What is semaphore?
5. Define Deadlock.
6. Name the four conditions necessary for the occurrence of a deadlock.
7. What is meant by Segmentation?
8. Define Page Fault.
9. What do you mean by Disk Scheduling?
10. Give any two advantages of round robin scheduling.

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Discuss the architecture of operating system.

Or

- (b) Elucidate Inter-Process Communication.

12. (a) Explain the hardware solution to mutual exclusion critical section problem.

Or

- (b) Write a note concurrent programming with suitable example.

13. (a) Describe the Priority Scheduling Algorithm with an example.

Or

- (b) Differentiate deadlock and starvation.

14. (a) Give a brief note on Memory Organization.

Or

- (b) Explain the fixed partition multiprogramming with neat diagram.

15. (a) Discuss the FCFS disk scheduling algorithm.

Or

- (b) Describe the various file access control.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Identify the various states in Process Control Blocks.
 17. Describe software solution to the mutual exclusion problem.
 18. Explain three methods of Recovery from deadlock.
 19. Elaborate the Variable Partition Multiprogramming.
 20. Illustrate the different types of file allocation methods and draw a neat diagram.
-

D-4196

Sub. Code

13052/13252

DISTANCE EDUCATION

B.Sc. (CS)/ B.Sc. (CS) (Lateral Entry) DEGREE
EXAMINATION, MAY 2024.

Fifth Semester

RELATIONAL DATABASE MANAGEMENT SYSTEMS

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — ($10 \times 2 = 20$ marks)

Answer ALL questions.

1. Define DBMS.
2. What is instances and schema?
3. What is a foreign key constraint?
4. Define primary key constraint.
5. Mention the role of Intersect?
6. What is multi valued dependencies?
7. Comment on atomicity.
8. What is lock table?
9. What is search key for index?
10. How is data organized hash based index?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) What is data abstraction? List out levels and explain it.

Or

- (b) Explain the role of database administrator.

12. (a) How to destroying tables and views? Explain.

Or

- (b) Explain database query with an example.

13. (a) What are the aggregate operators support in SQL? Explain.

Or

- (b) Explain about functional dependencies.

14. (a) Write short note on simple transaction model.

Or

- (b) Briefly explain about transaction ACID properties.

15. (a) Explain about tree base indexing.

Or

- (b) Write short note on sorted files.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Explain about E-R model with suitable example.
 17. Explain about domain relational calculus with example.
 18. Describe the 1NF, 2NF and 3NF.
 19. Explain about time stamp based protocol.
 20. Explain B+ Tree with example.
-

D-4197

Sub. Code

13053/13253

DISTANCE EDUCATION

**B.Sc. (CS)/B.Sc. (CS) (Lateral Entry) DEGREE
EXAMINATION, MAY 2024.**

Fifth Semester

COMPUTER ARCHITECTURE

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. State Amdahl's Law.
2. What is displacement addressing mode?
3. Mention various types of dependencies.
4. State the possibilities of occurring imprecise exceptions.
5. What is Loop unrolling?
6. State the concept behind conditional instruction.
7. Define page fault.
8. State the properties of error.
9. Mention the various phases of OS workload.
10. What is Exponential back-off?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Give a short account on the various levels of programs.

Or

- (b) Explain with a diagram on the three popular choices for encoding the instruction set.
12. (a) Consider a loop branch whose behavior is taken nine times in a row, then not taken once. What is the prediction accuracy for this branch, assuming the prediction bit for this branch remains in the prediction buffer?

Or

- (b) List out the different levels of branch prediction scheme.
13. (a) Show our loop unrolled so that there are four copies of the loop body, assuming R1 is initially a multiple of 32, which means that the number of loop iterations is a multiple of 4. Eliminate any obviously redundant computations and do not reuse any of the registers.

Or

- (b) Consider the following code :

if ($A == 0$) { $S = T$; }

Assuming that registers R1, R2 and R3 hold the values of A, S and T, respectively, show the code for this statement with the branch and with the conditional move.

14. (a) Where can a block be placed in a cache? Explain.

Or

- (b) Explain in short on failure and clarify between faults, errors and failures.

15. (a) Write a note on Barnes Applications.

Or

- (b) Briefly explain the State transition diagram for an individual cache block in a directory based system.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Give a detailed account on Operand locations for four instruction set architecture classes used in registers.
17. Explain about Dynamic Scheduling Using Tomasulo's Approach.
18. Consider a loop like this one :
for ($i = 1; i \leq 100; i = i + 1$) {
 $A[i] = A[i] + B[i]; /* S1 */$
 $B[i + 1] = C[i] + D[i]; /* S2 */$
}
- What are the dependences between S1 and S2? Is this loop parallel? If not, show how to make it parallel.
19. Explain in detail on how the physical connection of the I/O bus is done in CPU?
20. Implement the barrier using fetch-and-increment. Compare performance to the spin-lock barrier.

D-4198

Sub. Code

13061/13261

DISTANCE EDUCATION

**B.Sc.(CS)/B.Sc.(CS) (Lateral Entry) DEGREE EXAMINATION,
MAY 2024.**

Sixth Semester

COMPUTER NETWORK

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define Internet.
2. What is Topology?
3. What is Retransmission?
4. Comment on ALOHA.
5. What is Routing table?
6. What is called Broadcasting?
7. What is mean by Multiplexing?
8. What is mean by Segment?
9. What is mean by asymmetric key?
10. Write about substitution cipher.

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) What are the different types of networks? Explain in detail.

Or

- (b) What are the two types of line configuration? Explain.

12. (a) Write about Block Coding Techniques.

Or

- (b) Distinguish between error control and flow control.

13. (a) Discuss about packet switching techniques.

Or

- (b) Write a short note on virtual circuit networks.

14. (a) Briefly explain remote file access.

Or

- (b) What is SNMP? Briefly discuss the SNMP model components.

15. (a) Explain about principles of Cryptography.

Or

- (b) Describe about AES (Advanced Encryption Standard).

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Explain the different network topologies.
 17. Explain the concept of stop and wait protocols.
 18. Briefly explain Link state routing algorithms.
 19. What is the use of DNS? Explain how it works.
 20. Describe in detail about security services.
-

D-4199

Sub. Code

13062/13262

DISTANCE EDUCATION

B.Sc.(CS)/B.Sc.(CS)(Lateral Entry) DEGREE EXAMINATION,
MAY 2024.

Sixth Semester

VISUAL BASIC PROGRAMMING

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — ($10 \times 2 = 20$ marks)

Answer ALL questions.

1. What is a project explorer?
2. State the use of code window.
3. How do you declare the variable in VB?
4. What is the use of text Box?
5. Define Startup Forms.
6. What is meant by Arrays?
7. Compare SDI and MDI.
8. Write down the features of MDI.
9. Mention the need of Commit command.
10. Define Query.

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Write a VB program to find the largest three numbers.

Or

- (b) Discuss the view code and immediate window.
12. (a) State the following looping statements with example.
- (i) Do...loop
- (ii) While...wend loop

Or

- (b) Discuss the following Input Box() and MsgBox().
13. (a) Explain the various types of procedures available in VB.

Or

- (b) Write a note on event handling.
14. (a) Explain the steps of creating a menu with a suitable example.

Or

- (b) How to creating a MDI Child Forms? Explain.
15. (a) Outline the properties of Database Object.

Or

- (b) List the any five properties of a Record Set Object.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Discuss the various branching statements in VB.
 17. Illustrate the drive, directory and file list box.
 18. Explain numeric functions available in VB.
 19. Explain the steps involved in menu creation.
 20. Examine the concept of student database using forms.
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D-4200

Sub. Code

13063/13263

DISTANCE EDUCATION

**B.Sc.(CS)/B.Sc.(CS) (Lateral Entry) DEGREE EXAMINATION,
MAY 2024.**

Sixth Semester

SOFTWARE ENGINEERING

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What are the umbrella activities of a software process?
2. Define software engineering.
3. Identify goals of elicitation phase.
4. Explain the process of validating requirements.
5. What are the object oriented design concepts?
6. Why interface analysis is critical in UI development?
7. State the Debugging Strategies.
8. List out the outcome of unit testing.
9. Expand RMMM.
10. What do you mean by software reliability?

PART B — ($5 \times 5 = 25$ marks)

Answer ALL questions, choosing either (a) or (b).

11. (a) Explain the following:

- (i) Spiral model
- (ii) RAD model.

Or

(b) List the principles of agile software development.

12. (a) What is requirements elicitation? Explain briefly.

Or

(b) Discuss the scenario based modeling.

13. (a) Illustrate shortly architectural design.

Or

(b) Discuss the concepts of interface design steps.

14. (a) Describe about test strategies for object oriented software.

Or

(b) Explain briefly about source code and metrics for testing.

15. (a) Explain the concept of reactive vs. proactive risk strategies.

Or

(b) Illustrate on software reviews.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Discuss in detail about evolutionary process model.
 17. Explain the concept of validating requirements.
 18. Describe about design concepts and design model.
 19. Write short notes on:
 - (a) Integration testing.
 - (b) Validation testing.
 20. Illustrate the concept of statistical software quality assurance.
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