

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 × 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.

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 × 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 × 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 × 5 = 25 marks)

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

11. (a) How does 'A deed of Bravery' deals 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 × 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-1244

Sub. Code

10113

DISTANCE EDUCATION

B.C.A. DEGREE EXAMINATION, MAY 2023.

First Semester

C AND DATA STRUCTURE

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Classify the different types of decision making statements.
2. What is variable? Give the rules for defining a variable.
3. What is a function? Write the types of functions.
4. Define pointer. How can you declare it?
5. Differentiate arrays and structures?
6. How to represent self-referential structures?
7. What is circular queue?
8. What are the advantages of circular linked list over singly linked list?
9. What is degree of node?
10. List out different techniques to represent tree.

PART B — (5 × 5 = 25 marks)

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

11. (a) Write detailed notes on C data types.

Or

- (b) Write a program to display the following pattern.

```
* * * * *  
* * * *  
* * *  
* *  
*  
*
```

12. (a) Explain the declaration and initialization of array of strings.

Or

- (b) Write a C program to find the factorial of a given number using recursion.

13. (a) Write short note on enumerations in C.

Or

- (b) Write a C program to copy the contents from one file to another file.

14. (a) Explain with illustrations how insertions and deletions can be performed on a doubly linked list.

Or

- (b) Illustrate the various representation of stack.

15. (a) Explain the various applications of binary tree.

Or

- (b) With an example, explain how insertions and deletions are carried out in a binary search tree.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Discuss about the following operators in C language with example.
 - (a) Bitwise operators
 - (b) Increment and decrement operators
 - (c) Logical operators
 17. How to declare and initialize a Two-dimensional array? Discuss with examples.
 18. Write a C Program to read and print student details using structure pointer, demonstrate example of structure with pointer.
 19. Explain the different operation performed on Stack. Give a suitable example.
 20. Explain traversal technique of binary tree.
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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 × 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 × 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 × 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 × 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 × 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-1245

Sub. Code

10123

DISTANCE EDUCATION

B.C.A. DEGREE EXAMINATION, MAY 2023.

Second Semester

PROGRAMMING IN C++

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. List the applications of OOPs.
2. Define the term 'keyword'.
3. What is mean by class and object?
4. How array differs from a variable?
5. Mention the role of pointer variable in C++.
6. What is mean by pure virtual function?
7. What are file stream class?
8. Define file pointer.
9. Define the term template.
10. List the rules for exception handling.

PART B — (5 × 5 = 25 marks)

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

11. (a) What is function prototype? Explain.
Or
(b) Explain about manipulators in C++.
12. (a) Explain about static member functions.
Or
(b) Write a short note on array within a class.
13. (a) List and explain the benefits of inheritance.
Or
(b) Discuss the concept of formatted console I/O operations in C++.
14. (a) How to open and close a file? Explain.
Or
(b) What are the functions that the file stream class provides? Explain.
15. (a) Discuss in detail about exception handling model.
Or
(b) Explain about overloaded function template.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain about function overloading with an example.
17. Demonstrate the concept of constructor with an example program.

18. Describe the concept of call by value and call by reference in C++.
 19. Write a brief note on error handling during file operations.
 20. Explain the types of templates available in C++.
-

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. மஞ்சைப்பத்து-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) மஞ்சைப்பத்து 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 × 10 = 30 மதிப்பெண்கள்)

பின்வரும் வினாக்களில் மூன்றனுக்குக் கட்டுரை வடிவில் விடை தருக.

16. முல்லைப் பாட்டு சுட்டும் காரகால 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 × 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 × 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.
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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 × 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-1246

Sub. Code

10133/12733

DISTANCE EDUCATION

B.C.A./B.C.A. (Lateral Entry) DEGREE EXAMINATION,
MAY 2023.

Third 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. Give the levels of data abstraction.
2. What does the cardinality ratio specify?
3. Differentiate between relation schema and relation instance.
4. What is Cartesian product?
5. What is correlation in nested queries?
6. Define multivalued dependencies.
7. What is a transaction?
8. Define normalization.
9. What is the search key for an index?
10. What is the order of B+ tree?

PART B — (5 × 5 = 25 marks)

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

11. (a) Describe the advantages of a DBMS.

Or

- (b) Write short note on query processor

12. (a) Write about key constraints.

Or

- (b) Give a brief on division operation

13. (a) Describe set comparison operators with examples.

Or

- (b) Discuss on schema refinement in database design.

14. (a) Describe about implementation of atomicity and durability.

Or

- (b) Write a note on buffer management.

15. (a) Discuss about clustered indexes

Or

- (b) Write the intuition for tree indexes.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the concept design with ER model.
17. Describe about tuple relational calculus.

18. Explain the properties of decomposition.
 19. Give a detailed note on lock based protocols.
 20. Explain comparison of file organizations.
-

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 × 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.

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 are 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 × 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 × 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 × 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-1247

Sub. Code

10143/12743

DISTANCE EDUCATION

B.C.A./B.C.A. (Lateral Entry) DEGREE EXAMINATION,
MAY 2023.

Fourth Semester

INTERNET AND JAVA PROGRAMMING

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define the term : WWW.
2. What is Domain Name System?
3. Define the structure of Java program.
4. What is the purpose of JVM?
5. How to add a constructor function to a class in Java?
6. How a final variable differs from static variable?
7. List down the methods available in lifecycle of thread.
8. Write down the code to create rectangle using Graphics class.
9. What is the purpose of DataInputStream class?
10. What are the output streams available in byte array stream?

PART B — (5 × 5 = 25 marks)

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

11. (a) Discuss about search engines.

Or

- (b) Explain Internet Relay Chat.

12. (a) Write in detail about arithmetic operators with an example program.

Or

- (b) Discuss if..else statement with an example program.

13. (a) Explain how to implement interface in java. Illustrate with an example program.

Or

- (b) Write in detail about single dimensional array with an example.

14. (a) Discuss about user defined exception with an example.

Or

- (b) Briefly explain applet life cycle methods.

15. (a) Write in detail about stream classes available in Java.

Or

- (b) How to handle exceptions in stream classes? Discuss.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. What are the procedures available in Telnet communication? Explain.
 17. Illustrate how to implement else if ladder with an example.
 18. Write short notes on (a) single inheritance (b) multilevel inheritance. Give an example:
 19. List down the controls available to handle exceptions in Java. Explain them with an example.
 20. Discuss in detail about reader and writer abstract classes of character stream.
-

D-1248

Sub. Code

10151/12751

DISTANCE EDUCATION

B.C.A./B.C.A. (LE) DEGREE EXAMINATION,
MAY 2023.

Fifth Semester

ACCOUNTING FUNDAMENTALS

(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 cost accountancy?
2. Write a short note on Going Concern Concept.
3. Define Accounting Period Concept.
4. What is materiality?
5. Define The concept of contra entry.
6. What is book-keeping?
7. What is Bills Journal?
8. What is Depreciation?

9. Write a short note on the objects of preparing a Trial Balance.
10. Write a short note on Manufacturing Account.

PART B — (5 × 5 = 25 marks)

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

11. (a) Is Accounting a 'Science' or an 'Art'?

Or

- (b) Explain the Relationship between Journal and Ledger.

12. (a) Discuss the Characteristics of Final Accounts.

Or

- (b) Write short notes on:

- (i) Proprietary Ratio
- (ii) Debt–equity Ratio
- (iii) Liquidity Ratio
- (iv) Current Ratio
- (v) Fixed Assets Ratio

13. (a) Examine the concept of location of errors.

Or

- (b) From the following balances, taken from the Trial Balance of Mr. Suresh, prepare a Trading and Profit and Loss Account for the year ending 31st Dec., 2019:

Particulars	Dr.	Cr.
Stock on 1.1.2017	2,000	
Purchases and Sales	20,000	30,000
Returns	2,000	1,000
Carriage	1,000	
Cartage	1,000	
Rent	1,000	
Interest Received		2,000
Salaries	2,000	
General Expenses	1,000	
Discount		500
Insurance	500	

The Closing Stock on 31st December, 2019 is Rs. 5,000.

14. (a) Discuss the various types of errors with suitable examples.

Or

- (b) Explain the differences between cost and financial accounting.
15. (a) What is cost sheet? Discuss the purpose and its functions.

Or

- (b) Explain Petty Cash Book.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Journalize the following transactions and post them into Ledger. 2011

- Sept. 01 Started business with Rs. 50,000, out of which paid into Bank Rs. 20,000.
- Sept. 02 Bought furniture for Rs. 5,000 and machinery for Rs. 10,000.
- Sept. 03 Purchased goods for Rs. 14,000.
- Sept. 06 Sold goods for Rs. 8,000.
- Sept. 08 Purchased goods from Malhotra & Co. Rs. 11,000.
- Sept. 10 Paid telephone rent for the year by cheque Rs. 500.
- Sept. 11 Bought one typewriter for Rs. 2,100 from Universal Typewriter Co. on credit.
- Sept. 15 Sold goods to Keshav Ram for Rs. 12,000.
- Sept. 17 Sold goods to Rajesh Kumar for Rs. 2,000 for cash.
- Sept. 19 Amount withdrawn from bank for personal use Rs. 1,500.
- Sept. 21 Received cash from Keshav Ram Rs. 11,900, discount allowed Rs. 100.
- Sept. 22 Paid into bank Rs. 5,800.
- Sept. 23 Bought 50 shares in XY & Co. Ltd. at Rs. 60 per share, brokerage paid Rs. 20.
- Sept. 25 Goods worth Rs. 1,000 found defective were returned to Malhotra & Co. and the balance of the amount due to them settled by issuing a cheque in their favour.
- Sept. 28 Sold 20 shares of XY & Co. Ltd at Rs. 65 per share, brokerage paid Rs. 20.

- Sept. 28 Bought goods worth Rs. 2,100 from Ramesh and supplied them to Suresh at Rs. 3,000.
- Sept. 30 Suresh returned goods worth Rs. 100, which in turn were sent to Ramesh.
- Sept. 30 Issued a cheque for Rs. 1,000 in favour of the landlord for rent for September.
- Sept. 30 Paid salaries to staff Rs. 1,500 and received from travelling salesman Rs. 2,000 for goods sold by him, after deducting the travelling expenses Rs.100.
- Sept. 30 Paid for: Charity Rs. 101
Stationery Rs. 450
Postage Rs. 249

17. Enter the following transactions in the Petty Cash Book (maintained on Imprest system) for the month of January, 2015.

- Jan. 01 Cash received from the Chief Cashier Rs. 200
- Jan. 03 Typing paper Rs. 8, Postage Rs. 4
- Jan. 06 Office cleaning Rs. 4
- Jan. 08 Postage Rs. 2
- Jan. 10 Cartage Rs. 2
- Jan. 15 Postage Rs. 6
- Jan. 18 Ink Rs. 3, Typing paper Rs. 10
- Jan. 20 Typewriter ribbon Rs. 10
- Jan. 22 Telephone charges Rs. 7
- Jan. 24 Office cleaning Rs. 2
- Jan. 25 Nailpolish Rs. 27
- Jan. 27 Telegrams Rs. 25
- Jan. 29 Typing paper Rs. 30

18. Describe the different methods of preparation of a Trial Balance.

19. (a) Sree Ram Dass, a trader supplies you with the following information and requests you to draw a Trading and Profit & Loss Account for the year ended 31st December, 2015, and a Balance Sheet as on that date:

Particulars	Balance as on 31.12.2014 Rs.	Balance as on 31.12.2015 Rs.
Sundry creditors for goods	80,000	----
Sundry creditors for expenses	4,000	5,000
Bills Receivable	14,000	12,000
Sundry Debtors	90,000	----
Bills Payable	12,000	8,000
Stock	----	30,000
Motor-car (after depreciation)	60,000	60,000
Furniture (up to 31.12.2014)	40,000	---
Building	1,20,000	1,40,000
Cash and Bank Balances	90,000	50,000
Profit and Loss Account (Credit)	30,000	---

- (b) The cash transactions (excluding payments for furniture), not otherwise indicated, are shown below:

Particulars	Rs.	Particulars	Rs.
Sales of scrap	15,000	Cash purchases	30,000
Various expenses	47,000	Payment to creditors	90,000
Collections from debtors	1,20,000	Cash sales	50,000

(c) Other information:

- (i) Some items of furniture, whose written down value as on 31.12.14, was Rs. 8,000, were sold on 30.6.15 for Rs. 6,000. Depreciation (on the Diminishing Balance Method) is to be provided on building and furniture @ 10% pa. and on motor car @ 20% pa. Additions to furniture and building were made at the beginning of the year.
- (ii) Bills receivable drawn during the year were Rs. 8,000 and bills payable accepted Rs. 6,000.
- (iii) Of the debtors, a sum of Rs. 6,000 should be written off as bad debts, and 2% provision is to be made for doubtful debts.
- (iv) Sree Ram Das maintains a steady gross profit at the rate of 30%.
- (v) 20% of the total sales and purchases made are to be treated as for cash.

20. Describe the functions of management accounting.

D-1249

Sub. Code

10152/12752

DISTANCE EDUCATION

B.C.A. (Lateral Entry) DEGREE EXAMINATION, MAY 2023.

Fifth Semester

COMPUTER GRAPHICS

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Why the Graphs are used in Computing?
2. List out the Categories and types in Computer Graphics.
3. What are the steps in 2D viewing pipeline?
4. Define skewing.
5. Define Bitmap.
6. Define interpolation.
7. What are basic geometric transformations?
8. Write down the rules in transformation.
9. What is the need of hidden surface algorithm?
10. What is buffer method?

PART B — (5 × 5 = 25 marks)

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

11. (a) Discuss in brief about CRT with neat diagram.

Or

- (b) List out the application of Computer Graphics.

12. (a) Explain in brief about the representation of coordinates in Homogeneous coordinate system.

Or

- (b) What is composite transformation? Discuss about its advantages with example.

13. (a) Discuss in brief about various illumination models.

Or

- (b) Explain in brief about Boundary fill algorithm.

14. (a) Differentiate between Viewport and Window port.

Or

- (b) Elaborate in brief about Coordinate system used in 3D images.

15. (a) What is back face detection method? Discuss.

Or

- (b) What is Key framing? Explain about its operations with a neat diagram.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. What are different types of filling algorithms? Discuss in detail about Polygon fill algorithm with a neat structure.
 17. What is clipping? Discuss in detail about its types with a neat structure.
 18. Bring out the properties of Bezier Curve.
 19. What is 3D transformation? Describe in detail about its types with a neat structure.
 20. Explain in detail about the principles of Animation.
-

D-1250

Sub. Code

10153/12753

DISTANCE EDUCATION

B.C.A./B.C.A. (Lateral Entry) DEGREE EXAMINATION,
MAY 2023.

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 are peripheral devices?
2. What are the two types of Interrupts?
3. What are the three types of Schedulers?
4. Define Round Robin Scheduling.
5. Define progress.
6. What is wait and signal?
7. Mention three types of address used in program.
8. How main memory is partitioned?
9. Mention the types of files.
10. Name the attributes of a file.

PART B — (5 × 5 = 25 marks)

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

11. (a) Discuss in brief about different types of system calls.

Or

- (b) Enumerate the Hierarchy of Storage device.

12. (a) Differentiate between Process and Thread.

Or

- (b) Give a note on any two scheduling algorithms.

13. (a) Mention the requirements needed for solving critical section problem.

Or

- (b) Explain Hardware VPN with a neat structure.

14. (a) Write a brief note on fragmentation.

Or

- (b) Explain memory allocation mechanism with a neat structure.

15. (a) How will you access files? Discuss.

Or

- (b) Discuss in brief about the activities involved in Disk Management.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Give a detailed account of computer system Architecture with neat structure.
 17. Explain in detail about the types of Multiprocessor Operating with its advantages and disadvantages.
 18. Elaborate in detail about the problems that occur during Synchronization.
 19. Explain in detail about the classification of Memory management Scheme.
 20. Describe in detail about several logical structures of Directories with its advantage and Disadvantages.
-

D-1251

Sub. Code

10161/12761

DISTANCE EDUCATION

B.C.A./B.C.A. (Lateral Entry) DEGREE EXAMINATION,
MAY 2023.

Sixth Semester

MANAGEMENT PRINCIPLES AND TECHNIQUES

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Define Management.
2. List the steps in planning process.
3. What is the scope of O.R.?
4. State the necessary and sufficient condition for the existence of a feasible solution to a transportation problem.
5. Define critical path.
6. What is mean by a dummy activity?
7. What do you understand by replacement?
8. Define discount rate.

9. Write the formula for optimum replacement under the group replacement policy.
10. What is meant by running cost?

PART B — (5 × 5 = 25 marks)

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

11. (a) Discuss the basic styles of leadership.

Or

- (b) Explain the need for motivation.

12. (a) Write down the limitations of OR.

Or

- (b) A firm manufactures two types of products A and B and sells them at a profit of Rs.2 on type A and Rs.3 on type B. Each product is processed on two machines M_1 and M_2 . Type A requires 1 minute of processing time on M_1 and 2 minutes on M_2 . Type B requires 1 minute on M_1 and 1 minute on M_2 . Machine M_1 is available for not more than 6 hours and 40 minutes while machine M_2 is available for 10 hours during any working day. Formulate the problem as a LPP so as to maximize the profit.

13. (a) Draw the network for the project whose activities and their precedence relationships are given below

Activity : P Q R S T U

Predecessor: - - - P,Q P,R Q,R

Or

- (b) Distinguish between CPM and PERT.
14. (a) Let the value of money be assumed to be 10% per year and suppose that machine A is replaced after 3 years whereas machine B is replaced after every six years. The yearly costs of both the machines are given below.

Year : 1 2 3 4 5 6

Machine A : 1,000 200 400 1,000 200 400

Machine B: 1,700 100 200 300 400 500

Determine which machine should be purchased?

Or

(b) A pipeline is due to repairs. It will cost Rs.10,000 and lasts for 3 years. Alternatively a new pipeline can be laid at a cost of Rs.30,000 and lasts for 10 years. Assuming cost of capital to be 10% and ignoring salvage value, which alternative should be chosen.

15. (a) Discuss the various types of replacement problems, writing suitable examples for illustration.

Or

(b) The probability p_n of failure just before age n are shown below. If individual replacement costs Rs.12.50 and group replacement costs Rs.3.00 per item, find the optimal replacement policy.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Explain the functions of management.
17. Solve the following LPP by simplex method

$$\text{Minimize } Z = 8x_1 - 2x_2$$

$$\text{Subject to } -4x_1 + 2x_2 \leq 1$$

$$5x_1 - 4x_2 \leq 3$$

$$\text{and } x_1, x_2 \geq 0$$

18. A project consists of the following activities and time estimates.

Activity	t_o	t_m	t_p
1-2	3	4	5
2-3	1	2	3
2-4	2	3	4
3-5	3	4	5
4-5	1	3	5
4-6	3	5	7
5-7	4	5	6
6-7	6	7	8
7-8	2	4	6
7-9	1	2	3
8-10	4	6	8
9-10	3	5	7

Compute the following

- Expected duration of each activity
 - Expected variance of each activity
 - Expected variance of the project length.
19. A manufacturer is offered two machines A and B. A is priced at Rs.5000 and running cost are estimated at Rs.800 for each of the first five years, increasing by Rs.200 per year in the sixth and subsequent years. Machine B, which has the same capacity as A, costs Rs.2500 but will have running costs of Rs.1200 per year for six years, increasing by Rs.200 per year thereafter. If money is worth 10% per year which machine should be purchased? Assume that the machines will eventually be sold for scrap at a negligible price.

20. The probability distribution of the failure time of certain type of electric bulbs is given below:

Week	1	2	3	4	5	6	7	8
Prob.of failure	0.05	0.13	0.25	0.43	0.68	0.88	0.96	1.0

The cost of individual replacement is Rs.4 per bulb. The cost of group replacement is Rs.1 per bulb. If there are 1000 bulbs in use find the optimal replacement policy under group replacement.

D-1252

Sub. Code

10162/12762

DISTANCE EDUCATION

B.C.A./B.C.A. (Lateral Entry) DEGREE EXAMINATION,
MAY 2023.

Sixth Semester

SYSTEM ANALYSIS AND DESIGN

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Name the various types of systems.
2. What is the role of system analyst?
3. Mention the need for background analysis.
4. What are the elements of Data Dictionary?
5. What is called Input validation?
6. What are the classification of forms?
7. Name the various File organization.
8. What is program flow chart?
9. What are the various conversion methods?
10. Write down the procedure for Hardware selection.

PART B — (5 × 5 = 25 marks)

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

11. (a) Outline the process of MIS.

Or

- (b) Write about Interpersonal and Technical skills.

12. (a) Explain the planning activity in system analysis.

Or

- (b) Explain Decision table with an example tabulation.

13. (a) Briefly explain the Form driven design methodology.

Or

- (b) Explain the components of output design.

14. (a) Explain Direct Indexed file system.

Or

- (b) What is called structured walkthrough? Explain the steps.

15. (a) Write about Post Implementation review.

Or

- (b) Discuss the major phases in software selection.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Describe the architecture of system development life cycle.
17. Explain Technical, Economical and Operational feasibility analysis.

18. Describe the various steps in Input design.
 19. Explain the various types of Databases.
 20. Discuss the activities of system evaluation and Implementation.
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D-1253

Sub. Code

10163/12763

DISTANCE EDUCATION

B.C.A./B.C.A. (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. Write the purpose of the Properties window in visual Basic.
2. What is an event-driven program in visual Basic?
3. What are the different types of loop control structures available in Visual Basic?
4. What is a control array in visual Basic?
5. Write the purpose of a recursive function in Visual Basic.
6. What is the difference between a procedure and a function in Visual Basic?
7. What is an MDI form in Visual Basic?
8. How do you add code to a menu in Visual Basic?
9. What is the purpose of the Move Next method in DAO?
10. Write the difference between DAO and ADO in Visual Basic.

PART B — (5 × 5 = 25 marks)

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

11. (a) Describe the programming structure used in Visual Basic applications.

Or

- (b) Outline the steps required to create an EXE file from a visual Basic project.

12. (a) Provide examples of how subroutines and functions are used in Visual Basic, and explain the differences between them.

Or

- (b) Write a detailed note on the Directory List Box and File List box controls in Visual Basic.

13. (a) Explain with example code: String functions in Visual Basic.

Or

- (b) Discuss indexing and event handling in Visual Basic, providing detailed explanations and examples.

14. (a) Explain the purpose and functionality of MDI forms in Visual Basic, highlighting their advantages over other types of forms.

Or

- (b) Describe the detailed procedure to create a MDI child form in VB

15. (a) Describe the role of the Commit and Rollback comments in transactions involving Access files.

Or

- (b) Provide an example program and explain the concept of Record set in VB.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Write a detailed note on forms and controls in VB.Net.
 17. Explain the various looping statements and decision control structures in VB
 18. Make elaborate notes on arrays in VB
 19. Discuss in detail the menus in VB
 20. Write a detailed note on Active Data Objects in VB.
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