

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 'தளிர்க்கீற்று' 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 எழுதாமெக்கான 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 × 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”.

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 advise 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 × 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-4201

Sub. Code

10113

DISTANCE EDUCATION

B.C.A. DEGREE EXAMINATION, MAY 2024.

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. What is token?
2. Define the structure of a C program.
3. Differentiate library function and user defined function.
4. What is pointer?
5. Write the differences between Structure and Union.
6. How do you open and close a data file?
7. Define Linked List.
8. Write the operations of a Stack.
9. Name any two applications of Tree.
10. Define Binary Search.

PART B — (5 × 5 = 25 marks)

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

11. (a) What are the basic data types available in C? Write the significance of each data type.

Or

- (b) List all conditional control statements used in C. Explain any two of them with examples.

12. (a) Define Array. Explicate with suitable example how to declare and initialize one dimensional array.

Or

- (b) How to perform arithmetic operations with pointers? Illustrate with an example.

13. (a) Explicate the concepts array of structure with sample program.

Or

- (b) Demonstrate the procedures to create a data file.

14. (a) Elaborate the various queue operations with an example.

Or

- (b) How to insert and delete a element in the linked list? Give sample program.

15. (a) Describe the working model of binary search in detail.

Or

- (b) How do you represent a binary tree? Illuminate its procedures.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Demonstrate the operators used in C with suitable examples.
 17. Write the C program to sort n elements.
 18. Explain how to pass the structures to a function with an example.
 19. How to merge the lists? Explicate with a sample program.
 20. Give a brief account on Hashing techniques.
-

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 × 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 × 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-4202

Sub. Code

10123

DISTANCE EDUCATION

B.C.A. DEGREE EXAMINATION, MAY 2024.

Second Semester

PROGRAMMING IN C++

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

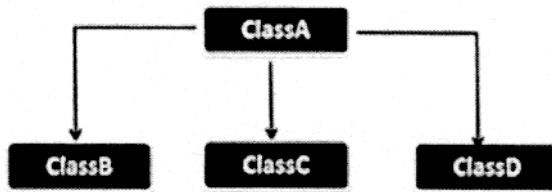
Answer ALL questions.

1. Differentiate between Procedural Approach and Object Oriented Approach.
2. What is implicit conversion? Give an example.
3. What are the special characteristics of static data members?
4. Define destructor.
5. Define inheritance. What are the advantages of using inheritance?
6. What are the main usage of 'this' keyword in C++?
7. What are input and output streams?
8. Write a syntax for open a file using open().
9. Why templates are using in C++?
10. What is the advantage of using exception handling?

PART B — (5 × 5 = 25 marks)

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

11. (a) Write a short note on basic data types in C++.
Or
(b) Write a C++ program to perform addition, subtraction, multiplication and division operation using functions.
12. (a) How to specify a class? Explain with example.
Or
(b) Explain in detail about friend function with example.
13. (a) Explain in detail about pure virtual function with an example.
Or
(b) Write C++ program for the following diagram :



14. (a) How to detect end of file? Explain with suitable example.
Or
(b) Discuss various file modes available in C++.
15. (a) Write short note on user-defined templates.
Or
(b) Explain in detail about multiple catch statements with suitable example program.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Discuss the various operators in C++.
 17. What are the characteristics of constructor? Explain the dynamic and parameterized constructor with examples.
 18. Describe in detail about formatted console I/O operations in C++.
 19. Elaborate sequential input and output operations.
 20. Discuss on function template with multiple arguments.
-

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) மஞ்சைப் 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 × 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 × 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 × 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 × 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 a an anti-war play.

19. How does Asif Currimbhoy picturise 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-4203

Sub. Code

10133/12733

DISTANCE EDUCATION

B.C.A./B.C.A. (Lateral Entry) DEGREE EXAMINATION,
MAY 2024.

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. Define Database System.
2. What is an entity?
3. Mention the difference between View and Table.
4. What is self-join?
5. Specify the difference between Delete and Truncate?
6. Define Trigger.
7. What do you mean by Serializability?
8. Write the use of Recovery Manager.
9. What is meant by Indexing?
10. State the uses of creating tree indexes

PART B — (5 × 5 = 25 marks)

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

11. (a) What is RDBMS? What are its features? Explain them.

Or

- (b) Describe database system architecture in detail.

12. (a) What is Join? Explain its types.

Or

- (b) Write a short note on Tuple Relational Calculus.

13. (a) What are nested queries? Explicate an example.

Or

- (b) Differentiate trigger and function with examples.

14. (a) How to implement atomicity and durability in a transaction? Explain.

Or

- (b) Illustrate the processes of recovery in concurrent transactions.

15. (a) Describe the file organization in detail.

Or

- (b) How do you create a dynamic index structure? Give an example.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. What are the data models in RDBMS? Explain them.
 17. Discuss the various set operations with examples.
 18. Give a brief account on Normal Forms.
 19. Explicate any two transaction protocols with their functions.
 20. Describe different index data structures in detail.
-

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 × 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 × 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 நூல்களை 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 × 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 × 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 × 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-4204

Sub. Code

10143/12743

DISTANCE EDUCATION

B.C.A./B.C.A. (Lateral Entry) DEGREE EXAMINATION,
MAY 2024.

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. Write a short note on telnet.
2. Mention the uses of Email.
3. Define the term an object.
4. What do you meant by dynamic binding?
5. Write down the difference between a class and interface.
6. Write a short note on enumerated types.
7. List down the two types of exceptions in Java?
8. How applets differ from applications?
9. Define the term on output stream classes.
10. What is data streams in java?

PART B — (5 × 5 = 25 marks)

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

11. (a) How the user connecting to the internet? Explain briefly.

Or

- (b) Discuss in detail about internet search engines.

12. (a) Write a brief note on five types of tokens.

Or

- (b) Write the general form of switch statement through example.

13. (a) Explain the concept of two dimensional arrays with example.

Or

- (b) What is nested of methods? Explain with example.

14. (a) What are the attributes of applet tag? Explain with example.

Or

- (b) Explain the concept of drawing methods of graphics classes.

15. (a) Differentiate between input streams and output streams.

Or

- (b) Brief the concept of I/O classes using stream in java.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the basic Internet concepts with the help of appropriate examples.
 17. Explain the various control statement in Java with example.
 18. Describe the different forms of inheritance with example.
 19. Explain the various stages of applet life cycle.
 20. Discuss all the input stream class methods.
-

D-4205

Sub. Code

10151/12751

DISTANCE EDUCATION

B.C.A./B.C.A. (Lateral Entry) DEGREE EXAMINATION,
MAY 2024.

Fifth Semester

ACCOUNTING FUNDAMENTALS

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. What is the accounting equation?
2. Define “assets” in accounting.
3. What is the formula to calculate net profit or net income?
4. Explain the accrual basis of accounting.
5. What is the purpose of a trial balance?
6. Define “liabilities” in accounting.
7. Name two examples of non-current assets.
8. What is the significance of the “Matching principle” in accounting?
9. What is good inventory turnover ratio?
10. How is the current ratio calculated?

SECTION B — (5 × 5 = 25 marks)

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

11. (a) Prepare Profit and Loss Account, from the following balances of Mr. Murugan for the year ending 31.12.2009 :

Office rent Rs. 3,000

Printing expenses Rs. 2,200

Tax, Insurance Rs. 1,400

Discount received Rs. 400

Advertisement Rs. 3,600

Salaries Rs. 8,000

Stationeries Rs. 2,400

Discount allowed Rs. 600

Travelling expenses Rs. 2,600

Gross profit transferred from the Trading A/c Rs. 25,000.

Or

- (b) Explain the principles and Importance of Financial Accounting.
12. (a) Difference between a Trial Balance and a Balance Sheet.

Or

- (b) From the following balances extracted from the books of a trader, prepare Trial Balance as on 31st March, 2010.

	Rs.
Cash in hand	4,200
Cash at bank	16,800
Bills Receivable	18,000

	Rs.
Bills payable	16,000
Sundry debtors	24,600
Sundry creditors	32,400
Capital	50,000
Drawings	18,000
Sales	1,05,000
Purchases	75,000
Carriage inward	2,700
Salaries	12,000
Advertisement	2,400
Insurance	1,600
Furniture	7,500
Stock	18,600
Office Rent	2,000

13. (a) ABC Company purchased office supplies worth \$500 on credit from XYZ Office Supplies. Later, they paid Rs. 200 in cash and promised to pay the remaining amount in 30 days. Record these transactions using the double-entry system.

Or

- (b) Prepare a Cash Book with discount column of Shri Shyam from the following transaction. Enter the following in Shri Shyam's Cash Book and show the Balance :

2010

- March 1 Balance of cash in Hand Rs. 25,000
- March 3 Rent paid Rs. 2,000
- March 5 Purchased goods for cash Rs. 10,000
- March 10 Stationery purchased Rs. 2,500
- March 12 Sold Goods for Cash for Rs. 8,000
- March 15 Cash received from Ram Rs. 980 and
Discount allowed Rs. 20
- March 18 Cash paid to Shyam Rs. 950 and
Discount Received Rs. 50
- March 25 Wages paid Rs. 2,000.

14. (a) Given transaction for July 2023 :

- July 1 : The business started with a cash balance
Of Rs. 10,000 and inventory as follows :
Electronics : 50 units at Rs. 100 each
Apparel : 100 units at Rs. 50 each
- July 5 : Sold 20 Electronics units to customer A
on
Credit at Rs. 150 each
- July 8 : Purchased 30 Apparel units on credit
from
Supplier X at Rs. 30 each
- July 12 : Received Rs. 3,000 cash from customer A
for the earlier purchase of
Electronics units
- July 15 : Sold 15 Apparel units to customer B on
credit at Rs. 70 each

- July 18 : Paid Rs. 600 cash to supplier X for the earlier purchase of apparel units
- July 20 : Sold 10 Electronics unit to customer C on credit at Rs. 180 each
- July 25 : Purchased 20 Electronics units on credit from supplier Y at Rs. 120 each
- July 28 : Received Rs. 2,000 cash from customer B for the earlier purchase of Apparel units
- July 30 : Paid Rs. 1,800 cash to supplier Y for the Earlier purchase of Electronics units

Instructions :

- (i) Set up the subsidiary books mentioned above.
- (ii) Record all the transactions in their respective subsidiary books.
- (iii) Post the transactions from the subsidiary books to the General Ledger.
- (iv) Calculate the closing balances of all the accounts in the General ledger at the end of July 2023.

(Note : For simplicity, consider that there are no sales returns, purchase returns, or any other expenses involved in this scenario)

Or

- (b) From the following information of Raja's Ltd. on 31st March, 2005 you are required to prepare the Trading, Profit and Loss A/c and Balance sheet :

	Rs.		Rs.
Opening stock	5,000	Capital	89,500
Bills receivable	22,500	Commission (Cr.)	2,000
Purchases	1,95,000	Return outward	2,500
Wages	14,000	Trade expenses	1,000
Insurance	5,500	Office fixtures	5,000
Sundry Debtors	1,50,000	Cash in Hand	2,500
Carriage Inward	4,000	Cash at Bank	23,750
Commission (Dr.)	4,000	Rent and Rates	5,500
Interest on Capital	3,500	Carriage outward	7,250
Stationery	2,250	Sales	2,50,000
Return inward	6,500	Bills payable	15,000
Creditors	98,250		
Closing Stock	12,500		

15. (a) Shri Sivakumar started a business on 1.1.2017 with a capital of Rs. 61,500 and on 31.12.2017 his capital was Rs. 96,000. He withdrew from business every month Rs. 1,500 for his personal use and gave his wife Rs. 6,000. He invested Rs. 15,000 for further capital in this year. Calculate the amount of Profit and Loss made for the year 2019.

Or

- (b) The XYZ Company is facing financial difficulties and its management is concerned about the company's ability to meet its debt obligations. To assess the financial health of the company, the management wants to calculate the propriety ratio (also known as equity ratio) for the current fiscal year.

The company's financial statements for the year are as follows : Total Assets : Rs. 12,00,000 Total Liabilities : Rs. 8,00,000 Shareholder's equity : Rs. 4,00,000.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Record the following transactions in a Journal and then post the entries into the ledger.
- 1 15th June : Ibrahim a sole proprietor commenced
Business with a capital of Rs. 2,00,000
 - 2 17th June : Bought furniture for cash Rs. 20,000
 - 3 17th June : Paid Rent to the shop owner
Mr. Murugan Rs. 5,000
 - 4 18th June : Paid cash into bank Rs. 1,50,000
 - 5 18th June : Bought Goods for cash Rs. 10,000 from
M/s Shamir Jain & Co.,
 - 6 18th June : Bought Goods on credit from
M/s Ramdas & Bros. for Rs. 10,000
 - 7 19th June : Sold goods for cash Rs. 12,000 to
Mr. Naryan Tiwari
 - 8 20th June : Bought Machinery from M/s Boolani
Machinery and paid by cheque
Rs. 25,000

- 9 21st June : Sold goods on credit to Mr. Natekar
for Rs. 8,000
- 10 21st June : Paid weekly wages to workers
Rs. 5,000
- 11 24th June : Paid M/s Ramdas and Brothers by
Cheque Rs. 5,000
- 12 24th June : Received from Mr. Natekar Rs. 2,000
- 13 24th June : Received commission from M/s Orion
Traders for giving a trade lead Rs. 500

17. From the following trial balance extracted from the books of Thiru. Venkatachalam as on 31.12.07. Prepare :

- (a) Trading and Profit and Loss A/c and
(b) Balance sheet.

Trial Balance as on 31.12.07

Debit Balances	Rs.	Credit Balances	Rs.
Cash in hand	2,000	Capital	2,00,000
Machinery	60,000	Sales	2,54,800
Stock	50,000	Sundry creditors	40,000
Bills receivable	1,600	Bank overdraft	22,000
Sundry debtors	50,000	Return outwards	3,000
Wages	70,000	Discount received	1,800
Land	40,000	Bills payable	1,800
Carriage inwards	2,400		
Purchases	1,80,000		
Salaries	24,000		
Rent	4,000		

Debit Balances	Rs.	Credit Balances	Rs.
Postage	1,000		
Return inwards	3,200		
Drawings	10,000		
Furniture	18,000		
Interest	600		
Cash at Bank	6,600		
	<u>5,23,400</u>		<u>5,23,400</u>

Stock as on 31.12.07 to Rs. 1,00,000.

18. Enter the following transactions in a two-column cash book :

2015		Rs.
Jan. 1	Cash in hand	15,000
Jan. 5	Paid to Mohan	3,000
Jan. 5	Discount allowed by him	100
Jan. 6	Purchased goods	4,000
Jan. 10	Received from Vijay	9,800
Jan. 10	Discount allowed	200
Jan. 11	Sold goods	4,000
Jan. 12	Paid to Shyam	2,950
	Discount received	500
Jan. 13	Paid wages	500
Jan. 14	Paid to Rajesh in full settlement of his Account, which shows a Cr. Balance of	4,000

19. Enter the following transactions in the purchase book of Arun Kumar :

2015

- May 1 Bought from Mr. 'A' 10 boxes of Niram soap
@ Rs. 150 per box @ discount of 20%
- 8 Purchased from Mr. 'B' 5 boxes of Vim detergent
Powder Rs. 60 per box, for cash.
- 10 Received from Mr. 'C' 120 pieces of Sandalwood
Soap @ Rs. 8 per piece, less discount 20%
- 15 Purchased furniture from Mr. 'D' Rs. 5,548
- 18 Received invoice from Mr. 'E' for 15 cases of
"Wash bar" @ Rs. 180 per box. 12 cases of
Washing powder Rs. 60 per cake. Forwarding
Charges Rs. 20 less 25% discount
- 30 Purchased office stationery from Mr. 'A' Rs. 180

20. (a) You are working as an accountant for a medium-sized company. The company deals with a variety of transactions on a daily basis. The Management has asked you to maintain subsidiary books to record these transactions efficiently. Below are the details of transactions for the month of June 2023. You are required to create and maintain the necessary subsidiary books and provide the solution to the given problem.

Transactions for the month of June 2023 :

- June 1 : Sold merchandise to XYZ Corp. for Rs. 5,000 on credit
- June 2 : Purchased office supplies for Rs. 800 in cash
- June 5 : Received Rs. 2,000 from XYZ Corp. towards their outstanding payment.
- June 8 : Sold merchandise to ABC Ltd. Rs. 3,500 on credit
- June 10 : Paid Rs. 500 cash for transportation expenses
- June 15 : ABC Ltd. returned Rs. 1,000 worth of merchandise, which was purchased on credit
- June 20 : Received Rs. 3,000 from ABC Ltd. towards their outstanding payment.
- June 25 : Sold merchandise to DEF Inc. for Rs. 2,200 on credit.
- June 28 : Purchased office equipment for Rs. 5,000 in cash.
- June 30 : Received Rs. 1,500 from DEF Inc. towards their outstanding payment.

Requirements :

Create the necessary subsidiary books (Sales Book, Purchase Book, Cash Book, and Sales Return Book) to record the above transactions.

Prepare a summary of each subsidiary book at the end of June 2023.

Record the totals of each subsidiary book into the General Ledger.

- (b) Company XYZ is experiencing a high turnover ratio among its employees. The turnover ratio is a measure of the rate at which employees are leaving the company, usually expressed as a percentage. A high turnover ratio can have significant negative effects on the company, including increased recruitment and training costs, decreased productivity, and decreased morale among remaining employees. The company wants to address this issue and improve employee retention.
-

D-4206

Sub. Code

10152/12752

DISTANCE EDUCATION

B.C.A./B.C.A. (Lateral Entry) DEGREE EXAMINATION,
MAY 2024.

Fifth Semester

COMPUTER GRAPHICS

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Write the uses of video-display devices.
2. List out the advantages of graphics monitors.
3. How the matrix can be used in transformations?
4. What is meant by affine transformations?
5. What is meant by viewpoints?
6. List out the uses of three dimensional viewing.
7. What are the advantages of 3-D viewing?
8. Write the uses of 3-D geometric transformations.
9. Write any two examples of user interface design.
10. List out the uses of information display.

PART B — (5 × 5 = 25 marks)

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

11. (a) Describe in detail the mid-point ellipse algorithm.

Or

- (b) Write a short note on flood-fill algorithm.

12. (a) Illustrate the transformations between coordinate systems.

Or

- (b) Discuss about 2-D viewing functions.

13. (a) Write short note on B-spline curves and its uses.

Or

- (b) Discuss about polygon surfaces with diagram.

14. (a) Write short note on three-dimensional transformation functions.

Or

- (b) Discuss the following:

(i) Shear Transformations

(ii) Reflection.

15. (a) Write short note on design of animation sequence.

Or

- (b) Discuss about raster animation with an example.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Write brief note on raster-scan systems with diagram.
 17. Explain in detail the Cyrus-beck line clipping algorithms.
 18. Illustrate the polygon rendering methods.
 19. Discuss about viewing pipeline and view volume in 3-d viewing.
 20. Enumerate any two visual surface detection methods.
-

D-4207

Sub. Code

10153/12753

DISTANCE EDUCATION

B.C.A./B.C.A. (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. What is an Operating System?
2. How does an operating system important to a computer?
3. What is process scheduling?
4. Name any two scheduling algorithms.
5. What is Process Synchronization?
6. Define Deadlock.
7. How does swapping affect the performance of a system?
8. What is Segmentation?
9. What do you mean by Mounting?
10. Specify any two benefits of file system.

PART B — (5 × 5 = 25 marks)

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

11. (a) Describe the computer system organization with neat diagram.

Or

- (b) List and explain the operating system operations.

12. (a) Illustrate the concepts of process scheduling.

Or

- (b) Write a short note on Inter-process Communication.

13. (a) Elaborate the mechanisms of Semaphore.

Or

- (b) What are the methods available to handle deadlock? Explain them.

14. (a) Write and explain the swapping mechanisms with diagram.

Or

- (b) Demonstrate the concepts of Paging.

15. (a) Illuminate the different file access methods.

Or

- (b) Explicate the file protection methods in detail.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Describe the Operating System structure in detail.
 17. Explicate the various scheduling criteria for CPU scheduling.
 18. What are the conditions under which a deadlock situation may arise? Discuss them.
 19. Explain the contiguous memory allocation scheme with neat diagram.
 20. What are the various disk-scheduling algorithms? Explain them.
-

D-4208

Sub. Code

10161/12761

DISTANCE EDUCATION

B.C.A./B.C.A. (Lateral Entry) DEGREE EXAMINATION,
MAY 2024.

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 questions.

1. Define Management.
2. What are the various functions of Management?
3. What is OR? List out various applications of OR.
4. How do you convert an unbalanced transportation problem into a balanced one?
5. What are the rules for constructing a network diagram?
6. Define Critical Path.
7. What is replacement problem?
8. What are the situation which makes the replacement of items necessary?
9. Define individual replacement.
10. Write the formula for optimum replacement when salvage value is negligible whose money value changes with time.

PART B — (5 × 5 = 25 marks)

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

11. (a) Explain the steps involved in planning.

Or

- (b) Distinguish between formal and informal organization.

12. (a) Solve the following LPP using graphical method :

$$\text{Min : } z = 3x_1 + 2x_2$$

Subject to :

$$5x_1 + x_2 \geq 10$$

$$2x_1 + 2x_2 \geq 12$$

$$x_1 + 4x_2 \geq 12$$

and $x_1, x_2 \geq 0$.

Or

- (b) Solve the following LPP by Simplex method :

$$\text{Maximize } z = 80x_1 + 55x_2$$

Subject to

$$4x_1 + 2x_2 \leq 40$$

$$2x_1 + 4x_2 \leq 32$$

and $x_1, x_2 \geq 0$.

13. (a) Draw the network for the project whose activities with their predecessor relationships are given below :

A, C, D can start simultaneously :

$E > B, C; F, G > D; H, I > E, F; J > I, G; K > H;$
 $B > A.$

Or

- (b) Compute the earliest start, earliest finish, latest start and latest finish of each activity of the project given below :

Activity : 1-2 1-3 2-4 2-5 3-4 4-5

Duration (in days) : 8 4 10 2 5 3

14. (a) A machine owner finds from his past records that the costs per year of maintaining a machine whose purchase price is Rs. 6,000 are given below :

Year : 1 2 3 4 5 6

Maintenance cost (Rs.) : 1,000 1,200 1,400 1,800 2,300 2,800

Resale value (Rs.) : 3,000 1,500 750 375 200 200

Determine at what age is replacement due?

Or

- (b) The following failure rates have been found for a certain type of light bulbs :

Weeks : 1 2 3 4 5

% Failure at the end of the week : 10 25 50 80 100

There are 1000 bulbs in use and it costs Rs. 2 to replace an individual bulb which has burnt out. If all bulbs were replaced simultaneously it would cost 50 paise per bulb. It is proposed to replace all bulbs at fixed intervals whether or not they have burnt out and to continue replacing burnt out bulbs as they fail. At what intervals should all the bulbs be replaced?

15. (a) The failure rates of 1000 street bulbs in a colony are summarized in table :

End of month :	1	2	3	4	5	6
Probability of failure at date :	0.05	0.20	0.40	0.65	0.85	1.00

The cost of replacing an individual bulb is Rs. 60. If all the bulbs are replaced simultaneously it would cost Rs. 25 per bulb. Any one of the following two options can be followed to replace the bulbs. Replace the bulbs individually when they fail (Individual replacement policy).

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 × 10 = 30 marks)

Answer any THREE questions.

16. What are different types of plans? Explain.
17. Obtain an optimum basic feasible solution to the following transportation problem :

		Destination				Supply
		1	2	3	4	
Source	I	21	16	25	13	11
	II	17	18	14	23	13
	III	32	27	18	41	19
	Demand	6	10	12	15	

18. Construct the network for the project whose activities and the three time estimates of these activities (in weeks) are given below. Compute
- (a) Expected duration of each activity
- (b) Expected variance of each activity.

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

Activity	t_o	t_m	t_p
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

19. Following table gives the running cost per year and sale price of certain machine whose purchase price Rs. 50,000.

Year :	1	2	3	4	5	6	7	8
Running cost in thousand (Rs.) :	15	18	18	21	25	29	43	40
Resale value in thousand (Rs.) :	35	25	17	12	8	5	5	5

At what year is replacement due?

20. The initial cost of a machine is Rs. 7,100 and scrap value is Rs. 100. The maintenance costs found from experience are as follows :

Year :	1	2	3	4	5	6	7	8
Maintenance :	200	350	500	700	1000	1300	1700	2100

When should the machine be replaced?

D-4209

Sub. Code

10162/12762

DISTANCE EDUCATION

B.C.A./B.C.A. (Lateral Entry) DEGREE EXAMINATION,
MAY 2024.

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. Define system analysis.
2. What is the purpose of feasibility analysis in system design?
3. Mention one example of a structural model used in system analysis.
4. What is the key difference between a logical design and a physical design?
5. Name one popular methodology used for structured system analysis.
6. What is the primary goal of system documentation?
7. Briefly explain the term 'data flow' in the context of system analysis and design.
8. What are the main components of a Data Flow Diagram (DFD)?

9. Why is system maintenance an essential phase in the system development life cycle?
10. Name one important technique for gathering user requirements in system analysis.

PART B — (5 × 5 = 25 marks)

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

11. (a) What are the Element of a System? Explain it.

Or

- (b) Explain the Computer Based Information System in detail.

12. (a) Write the steps in Feasibility Analysis in detail.

Or

- (b) Write a short note on System Cost.

13. (a) What are the Types of Forms? Explain.

Or

- (b) How capturing data for input? Explain.

14. (a) Write a detail note on Data Flow Chart.

Or

- (b) Write a short notes on Quality Assurance.

15. (a) Explain Conversion Methods in detail.

Or

- (b) What are the major phases in Hardware and Software selection? Explain it.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Record the Role of Systems Analyst in detail.
 17. Explain: Work out the Analysis Tools in detail.
 18. Explain: Structured Design in detail.
 19. List out and explain the types of Databases in detail.
 20. Write a detailed note on System Maintenance.
-

D-4210

Sub. Code

10163/12763

DISTANCE EDUCATION

B.C.A./B.C.A. (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 × 2 = 20 marks)

Answer ALL the questions.

1. Write any two features of Visual Basic.
2. Give the structure of Visual basic applications.
3. What are the data types available in Visual Basic?
4. Write the syntax of while-wend control structure.
5. Differentiate between general procedure and event procedure.
6. Write any four numeric functions in VB.
7. What are menus?
8. Write the uses of MDI child forms.
9. What are OLEDB?
10. How do you add records in database?

PART B — (5 × 5 = 25 marks)

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

11. (a) Write short note on visual basic project explorer.

Or

- (b) Illustrate the forms and controls in program design.

12. (a) Write a VB program to find smallest of three numbers using if then else.

Or

- (b) Describe the control structures used in VB with their syntax and its uses.

13. (a) Write a VB program to move a text box using timer control.

Or

- (b) Illustrate with an example the common dialog controls in VB.

14. (a) How do you create menus? Write its procedure.

Or

- (b) Write short note on building MDI forms.

15. (a) Differentiate ADO and DAO.

Or

- (b) Write short note on ADODC based control.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Write brief note on visual basic applications event and event driven procedures.
 17. Explain in detail the check box, list box and control box controls with an example.
 18. Enumerate the various string functions in VB with an example.
 19. Write VB program to develop a simple student information system using files.
 20. Write VB program to read the employee details from table and produce a employee Pay bill.
-