

D-7120

Sub. Code

11A/13711

DISTANCE EDUCATION

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

First Semester

Part I – TAMIL PAPER – I

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

Time : Three hours

Maximum : 75 marks

பகுதி அ — (10 × 2 = 20 மதிப்பெண்கள்)

அனைத்து வினாக்களுக்கும் விடையளிக்க.

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

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

10. சீறாப்புராணத்தை இயற்றியவர் யார்?

பகுதி ஆ — (5 × 5 = 25 மதிப்பெண்கள்)

அனைத்து வினாக்களுக்கும் விடையளிக்க.

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

(அல்லது)

(ஆ) செய்யும் தொழிலின் மேன்மையைப் பட்டுக்கோட்டையார் வழி நின்று விளக்குக.

12. (அ) பாரத மாதாவின் பழம் பெருமைகளை விளக்குக.

(அல்லது)

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

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

(அல்லது)

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

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

(அல்லது)

(ஆ) கண்ணகியின் வரவை வாயிலோன் உரைத்த திறம் குறித்து எழுதுக.

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

(அல்லது)

(ஆ) வீரமாமுனிவரின் தமிழிலக்கியத் தாக்கத்தைத் தேம்பாவணி வழி விளக்குக.

பகுதி இ — (3 × 10 = 30 மதிப்பெண்கள்)

எவையேனும் மூன்றனுக்கு விடையளிக்க.

16. கண்ணனைக் குழந்தையாகப் பாவித்த கண்ணதாசனின் பாடற்கருத்துக்களைத் தொகுத்து எழுதுக.

17. நாமக்கல் கவிஞரின் நோயற்ற வாழ்வு குறித்துக் கட்டுரை வரைக.

18. பாரதிதாசனின் உலகப்பன் பாட்டு - விளக்கும் சமத்துவ சமுதாயத்தைக் கட்டுரைக்க.

19. வழக்குரை காதை கூறும் செய்திகளைத் தொகுத்து எழுதுக.

20. ஈத்தங்குலை வரவழைத்த படலக் கருத்துக்களை விளக்கி எழுதுக.

D-7121

Sub. Code

11B

DISTANCE EDUCATION

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

First Semester

English

Part I – COMMUNICATION SKILLS – I

(CBCS 2018-19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions

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

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

PART B — (5 × 5 = 25 marks)

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

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

Or

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

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

Or

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

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

Or

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

14. (a) Write about some facial expressions.

Or

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

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

Or

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

PART C — (3 × 10 = 30 marks)

Answer any THREE questions

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

Sub. Code

12/13712

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

First Semester

Part II – ENGLISH PAPER – I

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

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions

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

PART B — (5 × 5 = 25 marks)

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

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

Or

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

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

Or

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

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

Or

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

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

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

Or

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

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

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

Or

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

PART C — (3 × 10 = 30 marks)

Answer any THREE questions

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

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

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

D-7241

Sub. Code

10113

DISTANCE EDUCATION

B.C.A. DEGREE EXAMINATION, DECEMBER 2022.

First Semester

Computer Application

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. List out the rules for declaring variable.
2. Write the syntax of switch statement.
3. Mention the needs of function.
4. Write about comparison of two strings.
5. Define the term 'bit fields'.
6. How to open a file?
7. List the operations of data structure.
8. Define circular queue.
9. What is mean by binary tree?
10. Mention the two applications of tree.

PART B — (5 × 5 = 25 marks)

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

11. (a) Explain about data types in C.

Or

- (b) Write about *for* statement with an example.

12. (a) Write a short note on one dimensional array.

Or

- (b) Write a factorial value program using recursive function.

13. (a) How to define and accessing a structure? Explain.

Or

- (b) Compare structure and union.

14. (a) Explain various operations in queue.

Or

- (b) Write about single linked list.

15. (a) Explain detail about hashing techniques.

Or

- (b) Discuss about various applications of tree.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Discuss about managing input and output operations.
17. Explain about call by value and call by reference.

18. Write a brief note on processing a data file.
 19. Describe the concept of double linked list insertion and deletion.
 20. Explain about types of binary tree.
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D-7123

Sub. Code

21A

DISTANCE EDUCATION

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

Second Semester

Part I – TAMIL PAPER – II

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

பகுதி அ — (10 × 2 = 20 மதிப்பெண்கள்)

அனைத்து வினாக்களுக்கும் விடையளிக்க.

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

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

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

பின்வரும் வினாக்களுக்கு ஒரு பக்க அளவில் விடை தருக.

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

(அல்லது)

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

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

(அல்லது)

(ஆ) தடாகை வதையால் இராமன் பெற்ற பயன்கள் யாவை?

13. (அ) ஆகுபெயர் வகைகளை எடுத்துக்காட்டுகளுடன் விவரிக்க.

(அல்லது)

(ஆ) மொழிமுதல் எழுத்துக்களைச் சான்றுகளுடன் விளக்கி எழுதுக.

14. (அ) மகாகவி பாரதியாரின் தேசப்பற்றைப் பாராட்டியுரைக்க.

(அல்லது)

(ஆ) தமிழ்ச் சிறுகதை வரலாற்றை நும் பாடப்பகுதியால் சுருக்கி வரைக.

15. (அ) குணங்குடி மஸ்தான் படைப்புகளின் சிறப்புகளைத் தருக.

(அல்லது)

(ஆ) சமூக வளர்ச்சியில் வானொலியின் பங்கு குறித்து விளக்கிடுக.

பகுதி இ — (3 × 10 = 30 மதிப்பெண்கள்)

பின்வரும் வினாக்களில் மூன்றனுக்குக் கட்டுரை வடிவில் விடை தருக.

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

D-7124

Sub. Code

21B

DISTANCE EDUCATION

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

Second Semester

Part I – COMMUNICATION SKILLS - II

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

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

PART B — (5 × 5 = 25 marks)

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

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

Or

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

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

Or

- (b) Write a note on diphthongs.

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

Or

- (b) Enumerate the significance of soft skills.

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

Or

- (b) Explain the structure of an interview.

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

Or

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

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

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

Sub. Code

22/13722

DISTANCE EDUCATION

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

Second Semester

Part II – ENGLISH PAPER – II

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

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL the questions

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

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

PART B — (5 × 5 = 25 marks)

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

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

Or

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

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

Or

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

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

Or

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

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

Or

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

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

Or

(b) Discuss the different forms of writing reports.

PART C — (3 × 10 = 30 marks)

Answer any THREE of the following

16. Consider “Andrea Del Sarto” as a dramatic monologue.

17. In what way is “Gitanjali” considered a song offering.

18. Critically analyse Sorojini Naidu’s “The coromandel Fishers”.

19. Discuss the background and themes of “The Merchant of Venice”.

20. Opera refers to a dramatic art form, originating in Europe, in which the emotional content is conveyed to the audience as much through music, both vocal and instrumental, as it is through the lyrics. By contrast, in music theatre an actor’s dramatic performance is primary, and the music plays a lesser role. The drama in opera is presented using the primary elements of theatre such as scenery, costumes, and acting. However, the words of the opera, or libretto, are sung rather than spoken. The singers are accompanied by a musical ensemble ranging from a small instrument ensemble to a full symphonic orchestra.

(a) What is the importance of an opera?

(b) We can understand from the reading that

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

D-7242

Sub. Code

10123

DISTANCE EDUCATION

B.C.A. DEGREE EXAMINATION, DECEMBER 2022.

Second Semester

Computer Application

PROGRAMMING IN C++

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What do you mean by an object?
2. How will you declare variables in C++?
3. What is the purpose of inline function?
4. Define the term constructor.
5. What are called access specifiers?
6. What is called this pointer?
7. What are the different file modes?
8. Write a note on command line arguments in C++.
9. Write down the purpose of function templates.
10. How will you handle uncaught exceptions?

PART B — (5 × 5 = 25 marks)

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

11. (a) Discuss the principles of Object oriented programming.

Or

- (b) Discuss on Type cast operator with syntax and example.

12. (a) Write a C++ program to implement inline function.

Or

- (b) Write short notes on copy constructors.

13. (a) What is called Abstract class? Explain it with syntax and example.

Or

- (b) List and explain I/O manipulators in C++.

14. (a) Write a C++ program to read data from a text file and display it on screen.

Or

- (b) How will you handle errors during file operations? Explain in detail.

15. (a) Explain multiple argument function templates with an example.

Or

- (b) List and explain the various exceptions.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Write a C++ program to implement Function overloading.
17. How will you create multiple constructors in a class? Explain with example program.
18. What are the different types of inheritance? Explain any two of them with examples.
19. Discuss on file pointers and their manipulations.
20. Write a C++ program to catch all Exceptions.

D-7126

Sub. Code

31A/13731

DISTANCE EDUCATION

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

Third Semester

Part I – TAMIL PAPER III

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

Time : Three hours

Maximum : 75 marks

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

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

பகுதி ஆ — (5 × 5 = 25 மதிப்பெண்கள்)

பின்வரும் வினாக்களுக்கு ஒரு பக்க அளவில் விடை தருக.

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

(அல்லது)

(ஆ) கபிலர் பாடல்களின் தனிச் சிறப்புகளைத் தொகுத்துரைக்க.

12. (அ) ஐங்குறுநூற்று நூல் தொகுப்பு வரலாற்றை எடுத்துரைக்க.

(அல்லது)

(ஆ) அகநானூற்றின் நூல் அமைப்பும் பகுப்பும் குறித்து விளக்கி வரைக.

13. (அ) நற்றிணையில் காணப்படும் மணிமணியான கருத்துக்களைத் தொகுத்துரைக்க.

(அல்லது)

(ஆ) தலைமகன் பாசறையிலிருந்து சொல்லிய செய்தியைச் சேந்தம்பூந்தனார் வழி விளக்குக.

14. (அ) அறிவுடையார் குறித்து வள்ளுவர் உரைக்குமாற்றை எழுதுக.

(அல்லது)

(ஆ) நான்மணிக்கடிகையிலுள்ள எளிமையான கருத்துக்களை எடுத்துரைக்க.

15. (அ) இராசராசசோழன் நாடகக் கதைக்களத்தைச் சுருக்கி வரைக.

(அல்லது)

(ஆ) சுவடுகள் நாவல் கதைக்கருவை விளக்கி எழுதுக.

பகுதி இ — (3 × 10 = 30 மதிப்பெண்கள்)

பின்வரும் வினாக்களில் மூன்றனுக்குக் கட்டுரை வடிவில் விடை தருக.

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

D-7127

Sub. Code

31B

DISTANCE EDUCATION

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

Third Semester

Part I – HUMAN SKILLS DEVELOPMENT – I

(CBCS 2018-19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL the questions

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

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

PART B — (5 × 5 = 25 marks)

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

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

Or

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

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

Or

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

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

Or

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

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

Or

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

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

Or

- (b) Write a note on anger management.

PART C — (3 × 10 = 30 marks)

Answer any THREE of the following

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

Sub. Code

32/13732

DISTANCE EDUCATION

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

Third Semester

Part – II ENGLISH PAPER - III

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

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL the questions.

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

PART B — (5 × 5 = 25 marks)

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

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

Or

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

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

Or

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

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

Or

- (b) What happened at Comilla University?

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

Or

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

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

Or

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

PART C — (3 × 10 = 30 marks)

Answer any THREE of the following questions.

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

D-7243

Sub. Code

10133/12733

DISTANCE EDUCATION

B.C.A/B.C.A. (Lateral Entry) DEGREE EXAMINATION,
DECEMBER 2022.

Third Semester

Computer Application

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. What are the responsibilities of DBA?
2. What are attributes? Give examples.
3. What is meant by primary key constraint?
4. List all the variations of join operation.
5. What are nested queries?
6. What are the problems caused by decompositions?
7. Define the term transaction.
8. What do you mean by serializable schedule?

9. What is search key for an index?
10. Define the term cluster index.

PART B — (5 × 5 = 25 marks)

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

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

Or

- (b) Brief on relationships and relationship sets.

12. (a) What are the SQL constructs to modify the structure of tables and destroy tables and views?

Or

- (b) Bring out the expressive power of algebra and calculus.

13. (a) Explain aggregate operators with examples.

Or

- (b) When is decomposition said to be dependency-preserving? Why this property is useful?

14. (a) Write a short notes on serializability.

Or

- (b) Write about recovery with concurrent transactions.

15. (a) Compare different file organizations.

Or

- (b) Differentiate between ISAM and B+ tree indexes.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Explain about DDL and DML.
 17. Describe Tuple relational and Domain relational calculus.
 18. What are Normal forms? Explain different types of normal forms.
 19. Explain lock based protocols.
 20. Discuss in detail about hash based indexing.
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D-7129

Sub. Code

41A/13741

DISTANCE EDUCATION

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

Fourth Semester

Part I: TAMIL PAPER – IV

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

Time : Three hours

Maximum : 75 marks

பகுதி அ — (10 × 2 = 20 மதிப்பெண்கள்)

அனைத்து வினாக்களுக்கும் விடையளிக்க.

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

பகுதி ஆ — (5 × 5 = 25 மதிப்பெண்கள்)

பின்வரும் வினாக்களுக்கு ஒரு பக்க அளவில் விடை தருக.

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

(அல்லது)

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

12. (அ) முல்லைத்திணையின் கருப்பொருட்களைப் பட்டியலிடுக.

(அல்லது)

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

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

(அல்லது)

- (ஆ) சிலேடை அணியைச் சான்று காட்டி விளக்கி வரைக.

14. (அ) தொல்காப்பியம் தமிழரின் அடையாளமாக விளங்குவதை நிறுவுக.

(அல்லது)

- (ஆ) நாலடியார் நூல் வரலாற்றையும் சிறப்பியல்புகளையும் எழுதுக.

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

(அல்லது)

- (ஆ) இயேசு காவியம் கூறும் செய்திகளை எடுத்துரைக்க.

பகுதி இ — (3 × 10 = 30 மதிப்பெண்கள்)

பின்வரும் வினாக்களில் மூன்றனுக்குக் கட்டுரை வடிவில் விடை தருக.

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

D-7130

Sub. Code

41B

DISTANCE EDUCATION

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

Fourth Semester

Part I – HUMAN SKILLS DEVELOPMENT – II

(CBCS–2018-19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions

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

PART B — (5 × 5 = 25 marks)

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

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

Or

- (b) Differentiate interpersonal and intrapersonal communication.

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

Or

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

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

Or

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

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

Or

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

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

Or

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

PART C — (3 × 10 = 30 marks)

Answer any THREE of the following questions.

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

D-7131

Sub. Code

42/13742

DISTANCE EDUCATION

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

Fourth Semester

English

Part II – ENGLISH Paper – IV

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

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL the questions.

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

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

PART B — (5 × 5 = 25 marks)

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

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

Or

- (b) Why was schatz sad? Explain.

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

Or

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

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

Or

- (b) Sketch the character of Romeo.

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

Or

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

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

Or

- (b) Explain Group Discussion.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

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

D-7244

Sub. Code

10143/12743

DISTANCE EDUCATION

B.C.A./ B.C.A. (Lateral Entry) DEGREE EXAMINATION,
DECEMBER 2022.

Fourth Semester

Computer Application

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. Why Java is important to internet?
2. Define the term 'Telnet'.
3. List out the benefits of OOPs.
4. Write the syntax of 'for' statement.
5. Write about interface in Java.
6. What are system packages in Java?
7. How parameters are passed to an applet?
8. Why exception handling is done?

9. How to create a file?
10. Comment on reading characters.

PART B — (5 × 5 = 25 marks)

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

11. (a) Explain about Domain Name System.

Or

- (b) Write a short note on FTP.

12. (a) How Java is differ from C and C++? Explain.

Or

- (b) Discuss the concept of type conversion.

13. (a) How the packages are created? Explain.

Or

- (b) Explain one dimensional array with an example.

14. (a) Describe the two possible ways to create threads in Java.

Or

- (b) Explain how exception implemented in Java.

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

Or

- (b) Explain about byte stream classes.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Demonstrate the concept of search engine.
 17. Explain while and do — while statements with an example.
 18. Explain different types of constructor with an example.
 19. Discuss in detail about applet life cycle.
 20. Write a program to demonstrate the use of file and data input/output stream.
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D-7245

Sub. Code

10151/ 12751

DISTANCE EDUCATION

B.C.A./ B.C.A. (Lateral Entry) DEGREE EXAMINATION,
DECEMBER 2022.

Fifth Semester

Computer Application

ACCOUNTING FUNDAMENTALS

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What do you mean accounting?
2. Define the term cost accounting.
3. What do you mean by the term Journal?
4. What do you mean by accounting concepts?
5. What are Subsidiary books?
6. List out types of cash book.
7. When do you prepare a Manufacturing Account?
8. What is meant by Balance Sheet?
9. What is the significance of ratio analysis?
10. Give the formula for Liquid Ratio.

PART B — (5 × 5 = 25 marks)

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

11. (a) Explain the methods of Accounting.

Or

- (b) Distinguish between management accounting and cost accounting.

12. (a) How do you classify accounting concepts?

Or

- (b) Explain the uses of International Accounting standards.

13. (a) Pass Journal entries for the information below:

- (i) Salary paid Rs. 5,000
- (ii) Rent paid to house owner RS. 1,000
- (iii) Credit Purchases from Mr. A Rs. 2,000
- (iv) Discount received Rs.500.

Or

- (b) Correct the trial balance given below:

Particulars	Rs. (Dr)	Rs. (Cr)
Wages	20,000	-
Bank Loan	8,800	-
Sales	2,40,000	-
Capital	-	80,000
Plant & Machinery	-	15,000
Purchases	-	2,93,800
	2,68,800	3,88,800

14. (a) Enter the following in Double column cash Book.
2018

Jan.1	Cash balance	Rs.13,750
Jan.2	Received from Balan	Rs.2,500
	Discount allowed him	Rs.125
Jan.3	Purchased goods for Cash	Rs.2,150
Jan.4	Paid into Bank	Rs.1,100
Jan.5	Withdraw from Bank for personal use	Rs.1,500
Jan.7	Paid office Rent by Cheque	Rs.800

Or

- (b) Prepare a trading account of a trader for the year ending 31th December 2018 using the following data:

Particulars	Rs.
Opening Stock (1-1-2018)	50,000
Goods purchased during 2018	2,80,000
Freight and packing on the above	20,000
Closing Stock (31-12-2018)	60,000
Sales	3,80,000
Packing expenses on Sales for distribution	12,000

15. (a) From the following details find out

- (i) Current assets
- (ii) Current Liabilities
- (iii) Liquid Assets
- (iv) Stock.

Current Ratio 2.5, Liquid ratio 1.5, Working capital Rs.90, 000.

Or

- (b) A company has an average inventory of Rs.7,20,000 and inventory turnover is 12. The gross profit margin is 10% and credit sales are 20% of the total sales. Debtors Rs.4,30,000. Calculate the average collection period.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the scope and functions of management accounting.
17. What are accounting conventions? Explain them.
18. From the following Trial balance of Ravi, prepare Trading and profit and Loss Account for the year ended December 31st 2018 and a balance sheet as on that date:

Particulars	Trail Balance	
	Debit (Rs.)	Credit (Rs.)
Capital		40,000
Sales		25,000
Purchases	15,000	
Salaries	2,000	
Rent	1,500	
Insurance	300	
Drawings	5,000	
Machinery	28,000	
Bank Balance	4,500	
Cash	2,000	
Stock 1-1-93	5,200	
Debtors	2,500	
Creditors		1,000
	66,000	66,000

Adjustments required:

- (a) Stock on 31-12-2018 Rs.4,900
- (b) Salaries unpaid Rs.300
- (c) Rent paid in advance Rs.200
- (d) Insurance prepaid Rs.90

19. Mr. Mano keeps his books of accounts under single entry system. His financial position on 31.12.2018 and 31.12.2019 was as follows:

	1990 (Rs.)	1991 (Rs.)
Cash	9,860	800
Stock in trade	38,520	57,020
Plant and Machinery	54,420	61,000
Bills receivable	-----	16,480
Sundry Debtors	24,840	43,940
Sundry creditors	72,040	80,000
Furniture	4,960	5,220
Drawings	-----	5,000

During the year he introduced additional capital of Rs.20,000. From the above particulars prepare a statement of Profit and Loss of Mr.Mano for the year ended 31.12.2019

20. Calculate the value of opening stock and closing stock using the following information:

Opening debtors Rs.60,000 Closing debtors Rs.90,000

Opening B/R Rs.10,000 Closing B/R Rs.20,000

Credit allowed to debtors 1 month,

Gross Profit 20% on cost;

Stock turnover ratio: 10 times;

Opening stock was Rs.10,000 more than closing stock.

D-7246

Sub. Code

10152/ 12752

DISTANCE EDUCATION

B.C.A/ B.C.A. (Lateral Entry) DEGREE EXAMINATION,
DECEMBER 2022.

Fifth Semester

Computer Application

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. Define the term Bitmap.
2. What are the different types of printers?
3. What is called a viewport?
4. Write few applications of clipping.
5. Write down the functions of lookup Table.
6. What are the ways to represent polygon surfaces?
7. What is parallel Projection?
8. Define the term composite transformation.
9. State Painters algorithm.
10. Define the terms Depth Buffer and Frame buffer.

PART B — (5 × 5 = 25 marks)

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

11. (a) Explain briefly about Liquid Crystal Display Device with its structure.

Or

- (b) Describe the working of flood fill algorithm with an example.

12. (a) Elaborate on Sutherland Hodgeman Polygon clipping algorithm.

Or

- (b) Describe briefly about 2D Geometric Transformation with an example.

13. (a) Explain briefly about Polygon meshes with their advantages and disadvantages.

Or

- (b) List out the properties of B-spline curves.

14. (a) Write short notes on Bitmap Graphics.

Or

- (b) Discuss in brief about Homogeneous Coordinates.

15. (a) Write short note on BSP Trees.

Or

- (b) Describe Z buffer method with an example.

PART C — ($3 \times 10 = 30$ marks)

Answer any THREE questions.

16. Narrate the applications of Computer Graphics.
 17. Describe in detail about Window to Viewport Transformation.
 18. Give a detailed description on any two types of curves in 3D object representation.
 19. Detail on the following clipping algorithms
 - (a) Point clipping
 - (b) Polygon clipping.
 20. What is hidden surface problem? Explain the following in detail:
 - (a) A- Buffer method
 - (b) Depth sort method.
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D-7247

Sub. Code

10153/ 12753

DISTANCE EDUCATION

B.C.A./ B.C.A. (Lateral Entry) DEGREE EXAMINATION,
DECEMBER 2022.

Fifth Semester

Computer Application

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. Define the term Garbage Collection.
2. Explain the use of Bootstrap program.
3. What is the purpose of Scheduler?
4. What is the job of program counter?
5. Define the term Semaphore.
6. List the methods that prevent deadlock.
7. What is called Swapping?
8. What is meant by 'frame' in paging?
9. List out the operations that can be made on file.
10. What are the different file access methods in operating system?

PART B — (5 × 5 = 25 marks)

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

11. (a) Write short notes on system Programs.

Or

- (b) Discuss briefly about the Structure of Operating System.

12. (a) Brief on Priority scheduling.

Or

- (b) Write short notes on Process control Block.

13. (a) Describe briefly about Bounded Buffer problem.

Or

- (b) Explain briefly about deadlock avoidance.

14. (a) Explain the concept of demand paging with an example.

Or

- (b) What is contiguous memory allocation? Explain.

15. (a) Explain briefly about the process of disk management.

Or

- (b) What is called a file? Explain its types.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Describe in detail about computer system Architecture.
 17. Discuss in detail about scheduling criteria for a process.
 18. Explain in detail about the various ways to prevent deadlock.
 19. What is called segmentation? Discuss in detail about its types.
 20. Discuss in detail about any two allocation methods in operating system.
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D-7248

Sub. Code

10161/ 12761

DISTANCE EDUCATION

**B.C.A./ B.C.A. (Lateral Entry) DEGREE EXAMINATION,
DECEMBER 2022.**

Sixth Semester

Computer Application

MANAGEMENT PRINCIPLES AND TECHNIQUES

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Define Delegation.
2. Define motivation.
3. Define surplus variable.
4. Define optimum basic feasible solution.
5. Comment on dummy activity.
6. Define event.
7. What is mean by individual replacement policy?
8. Define money value.
9. Define group replacement policy.
10. Write about Hazard rate.

SECTION B — (5 × 5 = 25 marks)

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

11. (a) Explain concept of management.

Or

- (b) Write the planning process.

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

$$\text{Max } z = x_1 + x_2$$

$$\text{Subject } x_1 + x_2 \leq 1$$

$$- 3x_1 + x_2 \geq 0$$

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

Or

- (b) Formulate the dual of the following linear programming problem

$$\text{Maximize } z = 5x_1 + 3x_2$$

S-to-C

$$3x_1 + 5x_2 \leq 15$$

$$5x_1 + 2x_2 \leq 10$$

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

13. (a) Distinction between PERT and CPM.

Or

- (b) Write the Dijkstra's shortest path algorithm.

14. (a) Explain replacement policy for items whose maintenance cost increase with time and money value is not considered.

Or

- (b) A pipeline is due for repairs. It will cost Rs. 10,000 and lasts 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) Explain about group replacement policy.

Or

- (b) Describe about failure rate.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain Decision-making.

17. Solve the assignment problem.

	M ₁	M ₂	M ₃	M ₄	M ₅
J ₁	85	75	65	125	75
J ₂	90	78	66	132	78
J ₃	75	66	57	114	69
J ₄	80	72	60	120	72
J ₅	76	64	56	112	68

18. Project consist of the following activities and time Estimates:

Activity	:	1-2	2-3	1-4	2-5	2-6	3-6	4-7	5-7	6-7
t_0	:	3	2	6	2	5	3	3	1	2
t_p	:	15	14	30	8	17	15	27	7	8
t_m	:	6	5	12	5	11	6	9	4	5

- (a) Draw the network of the activity
- (b) What is the probability that the project will completed in 27 days?

19. A firm is considering replacement of a machine, whose cost price Rs. 12,200 and the Scarp value Rs. 200 the running cost in rupee are found from experience to be as follows

Year:	1	2	3	4	5	6	7	8
Running cost :	200	500	800	1200	1800	2500	3200	4000

When should the machine be replaced?

20. An electronic circuit consists of 15 value 20 resistors and 10 capacitors all connected in a series. The components in each category are identical and their failure time are found to following exponential distribution with the following mean failure time

	Values	Resistors	Capacitors
Mean failure time (hrs) :	10000	20000	20000

What is the mean time between failures of the system?
 What is CTS reliability for 100 hrs?

D-7249

Sub. Code

10162/ 12762

DISTANCE EDUCATION

B.C.A./ B.C.A. (Lateral Entry) DEGREE EXAMINATION,
DECEMBER 2022.

Sixth Semester

Computer Application

SYSTEM ANALYSIS AND DESIGN

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. What do you mean by system?
2. Define decision support system.
3. What is the purpose questionnaire while gathering information?
4. Write about Data Dictionary.
5. What do you mean by output design?
6. Define form design.
7. What is the purpose of system testing?
8. How database system is differing from file system?
9. Comment on Direct conversion method.
10. Define conversion plan.

PART B — (5 × 5 = 25 marks)

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

11. (a) Explain about characteristics of system.

Or

- (b) Write about computer based Management Information System.

12. (a) Write the steps in feasibility analysis.

Or

- (b) Differentiate between Decision table and Decision tree.

13. (a) Examine the concept of input form design.

Or

- (b) Illustrate the stages of system design.

14. (a) Explain the different issues involved in the designing of a database.

Or

- (b) Write a short note on quality of assurance.

15. (a) Explain about data and file preparation.

Or

- (b) List out the major phases in Hardware and Software selection.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the role of system analyst.
 17. Discuss in detail about cost benefit analysis.
 18. What are different methodologies of system design? Explain.
 19. Write a brief note on Network and Relational Databases.
 20. Define system maintenance. Give the examples of system maintenance by taking a case study.
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D-7250

Sub. Code

10163/ 12763

DISTANCE EDUCATION

B.C.A/ B.C.A. (Lateral Entry) DEGREE EXAMINATION,
DECEMBER 2022.

Sixth Semester

Computer Application

VISUAL BASIC PROGRAMMING

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define GUI.
2. How do you make EXE file?
3. Define Literal.
4. What is subroutine?
5. How do you create procedure?
6. Define an Index.
7. How do you create menu?
8. Define MDI.
9. What is Record set?
10. How the term commit is differed from rollback?

PART B — (5 × 5 = 25 marks)

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

11. (a) Briefly explain property window.

Or

- (b) Describe the programming structure of Visual Basic.

12. (a) How do you declare variables? Give its usage.

Or

- (b) Explain the following VB Controls

- (i) Text Box
- (ii) Command Button.

13. (a) Write a short note on Date and Time Function.

Or

- (b) Describe about Event handling.

14. (a) How do you add code to Menus? Explain.

Or

- (b) Explain shortly basic building MDI forms.

15. (a) Explain briefly Database Object and properties.

Or

- (b) Describe about the following

- (i) MoveFirst
- (ii) MoveLast

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain in detail about working with forms.
 17. Describe about looping and decision control structures.
 18. Narrate on numeric functions and recursive functions.
 19. Describe about Creating MDI child forms.
 20. How do you add and delete records in database? Explain.
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