

**D-5120**

**Sub. Code**

**11A**

**DISTANCE EDUCATION**

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

**First Semester**

**Part I : TAMIL PAPER –I**

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

**Time : Three hours**

**Maximum : 75 marks**

பகுதி அ — (10 × 2 = 20 மதிப்பெண்கள்)

அனைத்து வினாக்களுக்கும் விடையளிக்க.

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

9. 'சீறத்' என்பதன் பொருள் யாது?
10. வீரமாமுனிவர் இயற்றிய இரண்டு நூல்களைக் குறிப்பிடுக.

பகுதி ஆ — (5 × 5 = 25 மதிப்பெண்கள்)

பின்வரும் வினாக்களுக்கு ஒரு பக்க அளவில் விடை தருக.

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

(அல்லது)

(ஆ) தொழிலின் சிறப்புகளைப் பட்டுக்கோட்டையார் எங்ஙனம் எடுத்துரைக்கிறார்?

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

(அல்லது)

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

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

(அல்லது)

(ஆ) மீராவின் கவிதைகள் தரும் கருத்துக்களை எழுதுக.

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

(அல்லது)

(ஆ) தசரதனின் அமைச்சர்கள் எங்ஙனம் மகிழ்ந்ததாகக் கம்பர் பாடுகிறார்?

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

(அல்லது)

(ஆ) வீரமாமுனிவரின் தமிழ்ப் பற்றைத் தேம்பாவணி வழி விவரிக்க.

பகுதி இ — (3 × 10 = 30 மதிப்பெண்கள்)

பின்வரும் வினாக்களில் மூன்றனுக்குக் கட்டுரை வடிவில்  
விடை தருக.

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

**D-5121**

**Sub. Code**

**11B**

**DISTANCE EDUCATION**

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

First Semester

Part I – COMMUNICATION SKILLS – I

(CBCS – 2018-19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

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

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

PART B — (5 × 5 = 25 marks)

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

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

Or

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

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

Or

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

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

Or

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

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

Or

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

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

Or

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

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. What are the seven barriers of effective communication?
17. What is the important parts of speech preparation? Explain.
18. How do you demonstrate written communication skills?
19. Why does 'Outline Layout' play the key role for preparing a paragraph? State some reasons.
20. Differentiate topic-based group discussion with Case-study-based group discussion.
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**D-5122**

**Sub. Code**

**12**

**DISTANCE EDUCATION**

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

**First Semester**

**Part II — ENGLISH PAPER – I**

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

Time : Three hours

Maximum : 75 marks

**PART A — (10 × 2 = 20 marks)**

Answer ALL questions.

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

PART B — (5 × 5 = 25 marks)

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

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

Or

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

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

Or

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

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

Or

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

14. (a) Rewrite as directed :

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

Or

(b) Fill in with articles :

(i) \_\_\_\_\_ Nile is in Egypt, isn't it?

(ii) Where are \_\_\_\_\_ boys?

(iii) Do you want \_\_\_\_\_ orange?

(iv) How far is \_\_\_\_\_ sun away from \_\_\_\_\_ earth?

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

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

Or

(b) Dialogue writing :

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

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. What is the theme of the passage ‘Mrs. Pack Letide’s Tiger’?
  17. Illustrate the concept of “The Cat” by Catharine M. Willson.
  18. What is the theme of the essay “Our Civilization”?
  19. Explain how A.G. Gardiner goes on the show how good letter is written?
  20. Describe the bravery of Haria and Narwa.
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**D-5238**

**Sub. Code**

**10113**

DISTANCE EDUCATION

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

First Semester

C AND DATA STRUCTURE

(CBCS 2018 – 2019 Academic year onwards)

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define Constant.
2. Write the syntax of 'simple if' statement.
3. How array is differing from variable?
4. What is mean by pointer variable?
5. Define the term 'Union'.
6. How to close a file?
7. What is Data structure?
8. List the operations of Queue.
9. What is meant by leaf node?
10. Define Binary search tree.

SECTION B — (5 × 5 = 25 marks)

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

11. (a) Write a short note on type conversion.

Or

- (b) Explain while and do-while statement with an example.

12. (a) How to define and accessing function? Explain.

Or

- (b) Write a C program to check whether the string is palindrome or not.

13. (a) Explain about structure with in structure.

Or

- (b) How Structure is differing from array? Explain.

14. (a) Explain the Push and Pop operations in Stack.

Or

- (b) Write a short note on Single linked list.

15. (a) Write an algorithm for Binary tree.

Or

- (b) List and explain the applications of tree.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain various types of operators in C language.
  17. Write a brief note on storage classes.
  18. Discuss about various file operations in C.
  19. Describe the representation of linked list.
  20. Write an algorithm for binary tree traversal.
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**D-5123**

**Sub. Code**

**21A**

**DISTANCE EDUCATION**

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

**Second Semester**

**PART I : TAMIL PAPER – II**

**(CBCS 2018 – 2019 Academic Year Onwards)**

**Time : Three hours**

**Maximum : 75 marks**

பகுதி அ — (10 × 2 = 20 மதிப்பெண்கள்)

அனைத்து வினாக்களுக்கும் விடையளிக்க.

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

பகுதி ஆ — (5 × 5 = 25 மதிப்பெண்கள்)

பின்வரும் வினாக்களுக்கு ஒரு பக்க அளவில் விடை தருக.

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

(அல்லது)

(ஆ) ஆயர்கள் குழந்தையைப் போற்றி வணங்கியதை விவரிக்க.

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

(அல்லது)

(ஆ) இராமன் புரிந்த கன்னிப்போர் குறித்து இயம்புக.

13. (அ) முதல் எழுத்துக்களின் வகைகளை விளக்கி வரைக.

(அல்லது)

(ஆ) வினாக்கள் எத்தனை வகைப்படும்? அவற்றை விளக்கி வரைக.

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

(அல்லது)

(ஆ) கவியரசு கண்ணதாசனின் திரைப்படங்கள் குறித்துக் கட்டுரைக்க.

15. (அ) திருநாவுக்கரசரின் பக்தித் திறத்தைப் பாராட்டியுரைக்க.

(அல்லது)

(ஆ) மக்கள் வாழ்வியலில் தொலைகாட்சிப் பெறும் முக்கியத்துவத்தை எடுத்துரைக்க.

பகுதி இ — (3 × 10 = 30 மதிப்பெண்கள்)

பின்வரும் வினாக்களில் மூன்றனுக்குக் கட்டுரை வடிவில் விடை தருக.

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

**D-5124**

**Sub. Code**

**21B**

**DISTANCE EDUCATION**

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

Second Semester

Part I – COMMUNICATION SKILLS – II

(CBCS – 2018-19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

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

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

PART B — (5 × 5 = 25 marks)

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

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

Or

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

Or

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

Or

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

14. (a) What are the types of listening? Explain.
- Or
- (b) Explain the role of sender, medium and receiver in a communication process.
15. (a) How do you write an effective business proposal in a letter to an organization? Explain.
- Or
- (b) What are the five stages of an interview?

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. How does mother tongue facilitate the learning of a second language? Discuss.
17. Why is phonetics important for second language learning? Give detailed analysis.
18. Detail the making of a presentation using Power Point Slides.
19. Write in detail about conversation skills and its mode.
20. What is the role of an editor and how do editors add value in the publishing process?

**D-5125**

**Sub. Code**

**22**

**DISTANCE EDUCATION**

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

Second Semester

Part II – ENGLISH PAPER — II

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

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

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

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

PART B — (5 × 5 = 25 marks)

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

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

Or

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

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

Or

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

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

Or

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

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

Or

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

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

Or

(b) Bring out the purposes of a report.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions

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

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

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

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

19. Make notes of the following passage:

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

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

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

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

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

**D-5239**

**Sub. Code**

**10123**

DISTANCE EDUCATION

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

Second Semester

PROGRAMMING IN C++

(CBCS 2018 – 2019 Academic year onwards)

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. List the benefits of OOPs.
2. What is mean by identifier?
3. How to define member function?
4. Define destructor.
5. What are the visibility modes of inheritance?
6. What is mean by hybrid inheritance?
7. Define file input stream and file output stream.
8. Comment on Random access file.
9. What is mean by exception?
10. Define the term template.

SECTION B — (5 × 5 = 25 marks)

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

11. (a) What are data types in C++? Explain.

Or

- (b) Write a short note on inline function.

12. (a) Explain about arrays of objects.

Or

- (b) Discuss the concept of parameterized constructor.

13. (a) List the rules for virtual functions.

Or

- (b) Write about 'this' pointer.

14. (a) What are the operations on file?

Or

- (b) Explain sequential accessing in file pointer.

15. (a) Write a note on function template.

Or

- (b) Explain about user defined template.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain various types of OOPs concepts.
17. How to construct the two dimensional array? Explain with an example program.

18. Explain pointer to object with a C++ program.
  19. Write a brief note on command line arguments.
  20. Explain about types of exception handling with an example.
-

**D-5126**

**Sub. Code**

**31A**

**DISTANCE EDUCATION**

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

**Third Semester**

**Part I : TAMIL PAPER — III**

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

**Time : Three hours**

**Maximum : 75 marks**

பகுதி அ — (10 × 2 = 20 மதிப்பெண்கள்)

அனைத்து வினாக்களுக்கும் விடையளிக்க.

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

பகுதி ஆ — (5 × 5 = 25 மதிப்பெண்கள்)

பின்வரும் வினாக்களுக்கு ஒரு பக்க அளவில் விடை தருக.

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

(அல்லது)

- (ஆ) சிவலிங்க ராஜா உரையின் தன்மைகளைத் தொகுத்துரைக்க.

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

(அல்லது)

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

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

(அல்லது)

- (ஆ) அகநானூற்றால் அறியவரும் வரலாற்றுச் செய்திகளை எழுதுக.

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

(அல்லது)

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

15. (அ) இராசராசசோழன் நாடகக் கதைக்கோப்பைச் சுருக்கி வரைக.

(அல்லது)

- (ஆ) சுவடுகள் நாவலின் கதைமாந்தர் இயல்புகளை விரித்துரைக்க.

பகுதி இ — (3 × 10 = 30 மதிப்பெண்கள்)

பின்வரும் வினாக்களில் மூன்றனுக்குக் கட்டுரை வடிவில் விடை தருக.

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

**D-5127**

**Sub. Code**

**31B**

**DISTANCE EDUCATION**

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

**Third Semester**

**PART – I : HUMAN SKILLS DEVELOPMENT – I**

**(CBCS 2018 – 2019 Academic Year Onwards)**

**Time : Three hours**

**Maximum : 75 marks**

**PART A — (10 × 2 = 20 marks)**

**Answer ALL questions.**

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

PART B — (5 × 5 = 25 marks)

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

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

Or

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

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

Or

- (b) Write some dais etiquettes.

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

Or

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

14. (a) Why leader is necessary?

Or

- (b) When do we need counselling?

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

Or

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

PART C — (3 × 10 = 30 marks)

Answer any THREE of the following.

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

**D-5128**

**Sub. Code**

**32**

**DISTANCE EDUCATION**

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

**Third Semester**

**Part – II : ENGLISH – Paper — III**

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

**Time : Three hours**

**Maximum : 75 marks**

**PART A — (10 × 2 = 20 marks)**

**Answer ALL questions.**

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

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

(a) Health is wealth.

(b) He is very impatient.

10. Give an example for descriptive writing.

PART B — (5 × 5 = 25 marks)

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

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

Or

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

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

Or

(b) How does Corrie intend to revolutionize warfare?

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

Or

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

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

Or

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

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

Or

- (b) Illustrate noun and its types.

PART C — (3 × 10 = 30 marks)

Answer any THREE of the following.

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

**D-5240**

**Sub. Code**

**10133/**

**12733**

**DISTANCE EDUCATION**

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

**Third Semester**

**Computer Application**

**RELATIONAL DATABASE MANAGEMENT SYSTEMS  
(RDBMS)**

**(CBCS 2018 – 2019 Academic year onwards)**

**Time : Three hours**

**Maximum : 75 marks**

**SECTION A — (10 × 2 = 20 marks)**

**Answer ALL questions.**

1. What is a data model?
2. Define instance and schema.
3. What are integrity constraints?
4. Write the syntax of Tuple Relational Queries.
5. What are NULL values?
6. Define the term functional dependency.
7. List the types of serializability.
8. What are the pitfalls of lock-based protocols?

9. What is a file organization?
10. Write the order of B+ tree.

SECTION B — (5 × 5 = 25 marks)

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

11. (a) Write the disadvantages of file processing system.
- Or
- (b) Draw and explain the structure of DBMS.
12. (a) Discuss the steps involved in database design process.
- Or
- (b) Describe the set operations of relational algebra.
13. (a) What are nested queries? What is correlation in nested queries? Give examples.
- Or
- (b) Write short notes on multivalued dependencies.
14. (a) What is transaction? Explain its properties.
- Or
- (b) Discuss on Buffer management.
15. (a) How data is organized in a hash-based index?
- Or
- (b) Give a brief account on indexed Sequential Access Method (ISAM).

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

Answer any THREE questions.

16. Explain basic notations of ER diagram.
  17. Describe projection and selection operations with examples.
  18. Explain first, second and third normal forms.
  19. Discuss on timestamp based protocols.
  20. Describe the B+ tree insertion algorithm.
-

**D-5129**

**Sub. Code**

**41A**

**DISTANCE EDUCATION**

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

**Fourth Semester**

**Part I : TAMIL PAPER — IV**

**(CBCS 2018-19 Academic Year onwards)**

**Time : Three hours**

**Maximum : 75 marks**

பகுதி அ — (10 × 2 = 20 மதிப்பெண்கள்)

அனைத்து வினாக்களுக்கும் விடையளிக்க.

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

பகுதி ஆ — (5 × 5 = 25 மதிப்பெண்கள்)

பின்வரும் வினாக்களுக்கு ஒரு பக்க அளவில் விடை தருக.

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

(அல்லது)

(ஆ) புதுக்கவிதையில் குறியீடு பெறுமிடத்தைச் சுட்டி வரைக.

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

(அல்லது)

(ஆ) சங்க கால வீரத்தைப் புறப்பொருள் இலக்கணம் கொண்டு விரித்துரைக்க.

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

(அல்லது)

(ஆ) நிறுத்தற்குறிகளில் 'காற்புள்ளி' வருமிடங்களைச் சான்றுகளுடன் எழுதுக.

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

(அல்லது)

(ஆ) நாலடியார் நூல் எழுந்த வரலாற்றை எடுத்துரைக்க.

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

(அல்லது)

(ஆ) பாண்டியன் பரிசு காப்பியத்தின் கதைக் களத்தைச் சுருக்கி வரைக.

பகுதி இ — (3 × 10 = 30 மதிப்பெண்கள்)

பின்வரும் வினாக்களில் மூன்றனுக்குக் கட்டுரை வடிவில் விடை தருக.

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

**D-5130**

**Sub. Code**

**41B**

**DISTANCE EDUCATION**

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

**Fourth Semester**

**Part I – HUMAN SKILLS DEVELOPMENT – II**

**(CBCS 2018 – 19 Academic Year Onwards)**

**Time : Three hours**

**Maximum : 75 marks**

**PART A — (10 × 2 = 20 marks)**

**Answer ALL the questions.**

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

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

10. What is cooperative learning skills?

PART B — (5 × 5 = 25 marks)

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

11. (a) Elaborate the importance of counselling.

Or

(b) Define managerial skills with examples.

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

Or

(b) Illustrate the tools in technical skills.

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

Or

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

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

Or

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

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

Or

(b) Define social responsibilities.

PART C — (3 × 10 = 30 marks)

Answer any THREE of the following

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

**D-5131**

**Sub. Code**

**42**

**DISTANCE EDUCATION**

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

**Fourth Semester**

**PART II – ENGLISH PAPER – IV**

**(CBCS 2018 – 2019 Academic Year Onwards)**

**Time : Three hours**

**Maximum : 75 marks**

**PART A — (10 × 2 = 20 marks)**

**Answer ALL questions.**

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

9. Expand the below given proverb.

“Make hay while the sun shines”

10. Give some expressions of apology.

PART B — (5 × 5 = 25 marks)

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

11. (a) Sketch the character of sahib.

Or

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

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

Or

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

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

Or

(b) Examine the role of Escalus.

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

Or

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

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

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

Or

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

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

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

**D-5241**

**Sub. Code**

**10143/**

**12743**

**DISTANCE EDUCATION**

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

**Fourth Semester**

**Computer Application**

**INTERNET AND JAVA PROGRAMMING**

**(CBCS 2018 – 2019 Academic year onwards)**

**Time : Three hours**

**Maximum : 75 marks**

**SECTION A — (10 × 2 = 20 marks)**

**Answer ALL questions.**

1. How Internet is differing from network?
2. Define the term 'Internet Relay Chat'.
3. List out the applications of OOPs.
4. What is JVM?
5. Define package.
6. What are static members in Java?
7. What is the use of applet in Java?
8. What is mean by multithreading?

9. Comment on writing characters.
10. Define the term character stream.

SECTION B — (5 × 5 = 25 marks)

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

11. (a) Explain any two Internet programming languages with an example.

Or

- (b) Write a short note on Email.

12. (a) What are the data types supported in Java? Explain.

Or

- (b) Discuss the concept of evaluation of expression.

13. (a) Write a program to implement multiple inheritance using interfaces.

Or

- (b) Write about interfaces in Java.

14. (a) How applet is differing from application? Explain.

Or

- (b) Why exception handling is required? Explain.

15. (a) Explain about Random Access File.

Or

- (b) How to create a simple web application using JavaScript? Explain.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. What is web browser? Explain and its types.
  17. Explain about various types of if statements.
  18. Demonstrate the concept of method overloading and method overriding with an example.
  19. Discuss in detail about life cycle of thread.
  20. Discuss about data input and output streams.
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**D-5242**

**Sub. Code**

**10151/12751**

DISTANCE EDUCATION

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

Fifth Semester

Computer Application

ACCOUNTING FUNDAMENTALS

(CBCS 2018 – 19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define the term accounting.
2. Define the term management accounting.
3. What is meant by international standard?
4. What do you mean by accounting conventions?
5. What is a double entry system?
6. Write a short note on trial balance.
7. What is Petty cash book?
8. What do you mean by gross Profit?

9. Write the steps in Ratio analysis.
10. Write the formula for Average collection period.

PART B — (5 × 5 = 25 marks)

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

11. (a) Describe the 'Internal' and 'External' users of Accounting information and their requirements.

Or

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

12. (a) Explain various accounting concepts.

Or

- (b) Discuss the significance of International Accounting Standards.

13. (a) Journalise the following:

- (i) Commenced business with a capital of Rs.60,000.
- (ii) Salary paid by cheque Rs.5,000.
- (iii) Goods taken by proprietor Rs.12,000.
- (iv) Withdrew cash from bank Rs. 14,000.

Or

- (b) Prepare Trial Balance from the following

Particulars	Rs.
Capital	9,000
Plant and Machinery	12,000
Purchases	8,000
Sales	12,000
Sundry Creditors	8,000

Bank Loan	22,000
Rent outstanding	1,000
Opening Stock	2,000
Sales returns	4,000
Investment	14,000
Debtors	12,000

14. (a) Pass journal entries to rectify the following errors. Assume that there exists a suspense account:

- (i) The total of sales book was under cast by Rs, 2,000.
- (ii) The Purchase of Machinery Rs.3,000 was entered in the purchases book.
- (iii) A sale of Rs. 45 to Selvendran was posted in his account as Rs.54.
- (iv) The total of purchase return book was overcast by Rs.200.
- (v) The total of sales book Rs. 1,122 was wrongly posted in the ledger as Rs.1,222.

Or

(b) From the following figures, you are required to prepare:

- (i) Provision for doubtful debts a/c,
- (ii) Bad debts a/c; and
- (iii) Profit & Loss A/c.

Jan 1,2000	Provision for bad debts	Rs.2,500
Dec 31,2000	Bad debts	Rs.1,870
Dec 31,2000	Debtors	Rs.20,000

Information: Make provision for bad debts at 5% on debtors.

15. (a) Determine the value of closing stock from the following details:

Sales Rs. 4, 00,000

G.P. ratio: 10% on sales

Stock velocity = 4 times

Closing stock was Rs.10,000 in excess of opening stock.

Or

- (b) Current ratio 2.5; Working capital Rs.63,000. calculate Current assets and Current liabilities.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions

16. Discuss the characteristics of a good costing system.
17. “Cost accounting has become an essential tool in the hands of management” — Discuss.
18. From the following balance of Arvind, Prepare a Trading a/c, Profit & Loss a/c and Balance Sheet as at 31<sup>st</sup> December 1995.

Particulars	Rs.
Credit Balances:	
Capital	72,000
Creditors	17,400
Bills payable	5,054
Sales	1,56,364
Loan	24,000
Debit Balances:	
Debtors	7,770

Salaries	8,000
Discount	2,000
Postage	546
Bad debts	574
Interest	2,590
Insurance	834
Machinery	20,000
Stock(1-1-95)	19,890
Purchases	1,24,184
Wages	8,600
Buildings	47,560
Furniture	32,310

Value of goods on hand 31-12-95 Rs.28, 600.

19. Mohan, a retail merchant commenced business with a capital of Rs. 12,000 on 1.1.94. Subsequently on 1.5.94 he invested further capital of Rs. 5,000. During the year, he has withdrawn Rs.2,000 for his personal use. On 31.12.1994, his assets and Liabilities were as follows:

Particulars	Rs.
Cash at Bank	3,000
Debtors	4,000
Stock	16,000
Furniture	2,000
Creditors	5,000

Calculate the profit (or) loss made during the year 1994.

20. From the following information, prepare a balance Sheet.  
Show the Workings.

	Rs.
Working capital	75,000
Reserves and surplus	1,00,000
Bank overdraft	60,000
Current ratio	1.75
Liquid ratio	1.15
Fixed assets to proprietors' funds	0.75
Long term Liabilities	Nil

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**D-5243**

**Sub. Code**

**10152/  
12752**

**DISTANCE EDUCATION**

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

**Fifth Semester**

**Computer Application**

**COMPUTER GRAPHICS**

**(CBCS – 2018-19 Academic Year Onwards)**

**Time : Three hours**

**Maximum : 75 marks**

**PART A — (10 × 2 = 20 marks)**

**Answer ALL questions.**

1. Write any two application of computer graphics.
2. List out the uses of graphics in visualization.
3. Define the term clipping. Give an example.
4. What is reflection?
5. What are the different types of curves?
6. Define Polygon meshes and give its advantages
7. What is Shearing?
8. Describe 3D Rotation with an example.
9. What is flood fill algorithm?
10. Define the terms edge table and polygon table.

PART B — (5 × 5 = 25 marks)

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

11. (a) Explain briefly about CRT.

Or

- (b) Write and explain briefly about few applications of Computer graphics.

12. (a) Discuss briefly about Cohen Sutherland algorithm.

Or

- (b) What is viewing transformation? Explain.

13. (a) Write short notes on Hermit curve.

Or

- (b) Briefly discuss about polygon rendering methods.

14. (a) Explain briefly about Cyrus back line clipping.

Or

- (b) Write short notes on 3D Transformation with its derivation and structure.

15. (a) Elaborate on Scan line method with its structure.

Or

- (b) Briefly discuss about Depth sorting method.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. What is called a video monitor? Explain in detail about any two video display devices.
  17. What is text clipping? Explain in detail about various methods involved in it.
  18. What is called an illumination model? Discuss in detail about various illumination models.
  19. What is projection? Explain in detail about perspective Projection and its types.
  20. Describe in detail about Back face detection method.
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**D-5244**

**Sub. Code**

**10153/  
12753**

**DISTANCE EDUCATION**

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

**Fifth Semester**

**Computer Application**

**OPERATING SYSTEMS**

**(CBCS – 2018-19 Academic Year Onwards)**

**Time : Three hours**

**Maximum : 75 marks**

**PART A — (10 × 2 = 20 marks)**

**Answer ALL questions.**

1. Define the term System Call.
2. Define LAN Operating system with an example.
3. What is called a Process?
4. What do you mean by CPU Burst?
5. Define the term Mutual exclusion.
6. Write anyone way of avoiding deadlock.
7. What is called fragmentation? Give its types.
8. Distinguish between Logical and Physical address.
9. List out the types of data.
10. What is meant by file attribute?

PART B — (5 × 5 = 25 marks)

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

11. (a) Discuss in brief about Dual mode operation with neat diagram.

Or

- (b) List out the services provided by operating system.

12. (a) Write a brief note on Inter process communication with a neat diagram.

Or

- (b) Discuss briefly about Round robin scheduling and its advantages.

13. (a) State Petersons solution. Explain how it is used to solve the critical section problem.

Or

- (b) What are the various ways to handle Critical section problem? Explain.

14. (a) How will you bind instruction and data to memory? Explain.

Or

- (b) What is called swapping? Discuss briefly.

15. (a) What are the different operations performed on a Directory? Explain.

Or

- (b) Give a brief account on disk scheduling.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Discuss in detail about various computing environment with necessary diagrams.
17. Elaborate in detail about Scheduling criteria and how they satisfy the critical section problem
18. Discuss in detail about the necessary conditions for deadlock.
19. Explain in detail about the Structure of page table.
20. What is free space management in operating system? Explain in detail about various methods involved in allocating free space.

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**D-5245**

**Sub. Code**

**10161/12761**

DISTANCE EDUCATION

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

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. Write about the management.
2. What is the leadership?
3. Define slack variables.
4. Define basic feasible solution.
5. Define Activity.
6. Comment on loop.
7. Define discount rate.
8. Define present worth factor.
9. Define reliability.
10. Write mean time between failures formula.

PART B — (5 × 5 = 25 marks)

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

11. (a) Write the short notes on organizing.

Or

- (b) Write planning principles.

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

$$\text{Max } z = 6x_1 + x_2$$

$$\text{S-to-C}$$

$$2x_1 + x_2 \geq 3$$

$$x_2 - x_1 \geq 0$$

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

Or

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

$$\text{Minimize } z = 4x_1 + 6x_2 + 18x_3$$

$$\text{S-to-C}$$

$$x_1 + 3x_2 \geq 3,$$

$$x_2 + 2x_3 \geq 5$$

$$\text{and } x_1, x_2, x_3 \geq 0.$$

13. (a) Write rules of network construction.

Or

- (b) Draw a network diagram for the following data

Activity :            A    B    C    D    E    F    G    H

Preceding activity : None    A    A    B    A    B, E    C    D, F

14. (a) Explain replacement policy for items whose maintenance cost increase with the cost patterns of 2 machines A and B when money value is not considered is given below.

Year	Machine A	Machine B
1	900	1400
2	600	100
3	700	700

Find the cost patterns for each machine when money is worth 10% per year and hence find which machine is less costly.

Or

- (b) Explain replacement policy when value of money does not change with time  $t$  is discrete variable.
15. (a) Explain estimation of reliability.

Or

- (b) Describe the renewal rate of a machine is asymptotically reciprocal of the mean life of the machine.

PART C — ( $3 \times 10 = 30$  marks)

Answer any THREE questions.

16. Explain management function.

17. Solve the assignment problem :

	E	F	G	H
A	18	26	17	11
B	13	28	14	26
C	38	19	18	15
D	19	26	24	10

18. Calculate the Total Float, Free Float, Independent Float for the project whose activities are

Activity :	1-2	1-3	1-5	2-3	2-4	3-4	3-5	3-6	4-6	5-6
Duration :	8	7	12	4	10	3	5	10	7	4

19. A firm is considering replacement of a machine, whose cost price is 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 the machine should be replaced?

20. Explain Reliability and system failure rates.

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**D-5246**

**Sub. Code**

**10162/12762**

DISTANCE EDUCATION

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

Sixth Semester

SYSTEM ANALYSIS AND DESIGN

(CBCS 2018 – 19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. List any two characteristics of system.
2. Define management information system.
3. What is the importance of feasibility study?
4. Comment on preliminary Investigation.
5. What do you mean by input design?
6. Mention the role of audio in output design.
7. Define Database.
8. Mention the role of system testing.

9. Comment on parallel conversion method.
10. List the procedure for software selection.

PART B — (5 × 5 = 25 marks)

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

11. (a) Explain about elements of system.

Or

- (b) Write about computer based Decision Support System.

12. (a) Explain the role of structured english in system analysis.

Or

- (b) Describe the categories of cost.

13. (a) Differentiate logical and physical design.

Or

- (b) Examine the concept of output form design.

14. (a) Write about hierarchical database.

Or

- (b) List and explain the types of files.

15. (a) Explain about post implementation review.

Or

- (b) Write about financial consideration of system maintenance.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions

16. Demonstrate the concept of System Development Life Cycle.
  17. Differentiate between decision table and decision tree.
  18. Explain the major development activities in system design.
  19. Write a brief note on methods of file organization.
  20. Illustrate the system maintenance in software industry.
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**D-5247**

**Sub. Code**

**10163/12763**

DISTANCE EDUCATION

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

Sixth Semester

VISUAL BASIC PROGRAMMING

(CBCS 2018-19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. How do you Start and Exit VB?
2. What is event driven procedure?
3. List out the data types in VB.
4. What is directory list box and file list box?
5. What are String functions?
6. Define SubMain Procedure.
7. What do you meant by Graphics?
8. What is Menu? Give some examples.

9. How do you access MS-Access file?
10. Define OLEDB.

PART B — (5 × 5 = 25 marks)

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

11. (a) Narrate on Visual Basic Applications.
- Or
- (b) Describe print outs.
12. (a) Explain about Check box and Option Button with example.
- Or
- (b) Explain briefly Operators in VB.
13. (a) Write Short note on Procedures.
- Or
- (b) Discuss about Control Arrays.
14. (a) What are all the steps to be followed for creating Menu? Explain.
- Or
- (b) Explain shortly writing the VB code to add Children to MDI Parent.
15. (a) How do you connect the database and retrieve the RecordSet? Explain.
- Or
- (b) Explain in detail about ADO Object Model.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain in detail about working with projects using tool bar.
17. Explain the intrinsic VB controls List Box and Combo Box.
18. Explain in detail about working with multiple forms.
19. Describe about adding codes to menus.
20. Discuss about converting DAO code to ADO.

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