

D-6658

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 Years  
Integrated) DEGREE EXAMINATION.

MAY 2021 EXAMINATION

&

MAY 2020 ARREAR EXAMINATION

First Semester

Part I - TAMIL - Paper I

(CBCS 2018 - 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

பகுதி அ — (10 × 2 = 20 மதிப்பெண்கள்)

அனைத்து வினாக்களுக்கும் விடையளிக்க.

1. பாரத போர் முடிக்க கண்ணன் எடுத்தது யாது?
2. ஆயர்பாடியில் தாய்மடியில் மாயக்கண்ணன் தூங்கியது எவ்வாறு?
3. இருக்கிறதெல்லாம் பொதுவாய்ப் போனால் என்ன நடக்காது ?
4. 'பாதரமாதா திருப்பள்ளி எழுச்சி' பாடியவர் ?
5. நாமக்கல் கவிஞரின் இயற்பெயரைக் குறிப்பிடுக.
6. 'எதற்காக' என்ற கவிதையின் ஆசிரியர் யார் ?
7. சிலப்பதிகாரம் எத்தனைக் காதைகளால் அமைந்துள்ளது ?

8. தயரதன் மந்திர ஆலோசனை நடத்த காரணம் யாது ?
9. உமறுப்புலவர் - சிறு குறிப்பு வரைக.
10. தேம்பாவணி நூல் குறிப்புத் தருக.

பகுதி ஆ — (5 × 5 = 25 மதிப்பெண்கள்)

பின்வரும் வினாக்களுக்கு ஒரு பக்க அளவில் விடை தருக.

11. (அ) கண்ணன் புகழ் பாடும் இயற்கைப் பொருட்களைக் கண்ணதாசன் எங்ஙனம் விளங்குகிறார்?  
(அல்லது)  
(ஆ) 'நெஞ்சில் குடியிருக்கும்' என்ற பாடலில் காதலர்கள் உரையாடுமாற்றை விவரிக்க.
12. (அ) பாரதியார் கூறும் 'உலக வழக்கம்' குறித்த செய்திகளை எடுத்துரைக்க.  
(அல்லது)  
(ஆ) பிறைநிலவுப் பற்றி கவிஞர் பெ.தூரன் கவிப்பாடுமாற்றை எழுதுக.
13. (அ) பாரதத்தின் பெருமையும் நோயின் வலிமையும் என நாமக்கல் கவிஞர் எவற்றைக் கூறுகிறார்?  
(அல்லது)  
(ஆ) மீராவின் பவிதைகள் தரும் கருத்துக்களை எழுதுக.
14. (அ) வாயில் காவலர்க்குத் தன்வரவினைக் கண்ணகி எங்ஙனம் உரைத்தாள்?  
(அல்லது)  
(ஆ) தசரதன் இராமனுக்கு உரைத்த அறிவுரைகளை எடுத்தெழுதுக.

15. (அ) ஆயர்கள் கன்னித்தாயை வணங்கி வரவேற்ற நிகழ்வை விளக்கி எழுதுக.

(அல்லது)

(ஆ) நபிகள் ஈத்தங்குலை வரவழைத்தமைக்கான காரணத்தை எழுதுக.

பகுதி இ — (3 × 10 = 30 மதிப்பெண்கள்)

பின்வரும் வினாக்களுக்கு மூன்றனுக்குக் கட்டுரை வடிவில் விடை தருக.

16. பாரத மாதாவின் திருப்பள்ளி எழுச்சிச் சிறப்பை விவரிக்க.
17. பாரதிதாசன் உலகிற்குக் காட்டும் வழியை நும் பாடப்பகுதியால் எடுத்துரைக்க.
18. சிற்பி, 'சர்ப்ப யாகம்' கவிதை வழி உரைக்கும் செய்திகளை விரிந்துரைக்க.
19. கண்ணகி வழக்குரைத்த பாங்கை இளங்கோவடிகள் பாடுமாற்றை எழுதுக.
20. தேம்பாவணி காட்சிப் படலச் செய்திகளைத் தொகுத்துரைக்க

**D-6659**

**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.**

**MAY 2021 EXAMINATION**

**&**

**MAY 2020 ARREAR EXAMINATION**

**First Semester**

**PART - I**

**COMMUNICATION SKILLS - I**

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

**Time : Three hours**

**Maximum : 75 marks**

**PART A — (10 × 2 = 20 marks)**

**Answer ALL the questions.**

- 1. State the importance of Communication.**
- 2. What are Principles of Effective Communication?**
- 3. Define Oral Communication.**
- 4. Write the Functions of intonation**
- 5. What are the advantages and uses of Words and Phrases?**
- 6. Bring out the types of Non-Verbal Communications.**
- 7. Explain the Report Writing.**

8. Briefly explain Layout.
9. Define Logical Presentation.
10. Mention any two steps that involved in Written Communication.

PART B — (5 × 5 = 25 marks)

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

11. (a) Write a short note on Effective communication.

Or

- (b) What are types of communication?

12. (a) Explain the forms of Oral Communication and its Importance.

Or

- (b) Write about the Preparation of speech.

13. (a) State the characteristics of an effective sentence.

Or

- (b) Define Final Draft.

14. (a) Write about body language and postures in Non-Verbal Communication.

Or

- (b) What are the types of Report Writing?

15. (a) Define Logical Presentation.

Or

- (b) Write the steps involved in the application for Employment and curriculum vitae.

**PART C — (3 × 10 = 30 marks)**

**Answer any THREE questions.**

16. Write an essay on Communication and its importance.
  17. Define Intonation and how its function important in Oral Communication.
  18. What is mean by Written Communication and write the advantage of words and phrases
  19. Distinguish between the paragraph writing and Essay Writing.
  20. Explain Group discussion in Official Communication.
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**D-6660**

**Sub. Code**

**12**

DISTANCE EDUCATION

COMMON For B.A/B.Sc/ BBA/ BBA (Banking)/B.C.A/M.B.A  
(5 Years Integrated) DEGREE EXAMINATION.

MAY 2021 EXAMINATION

&

MAY 2020 ARREAR EXAMINATION

First Semester

Part II- ENGLISH PAPER –I

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Why water is called as the Elixir of life?
2. What is the irony in Mrs. Packletide's Tiger?
3. How did Carl Sagan change the world?
4. What are the effects of sensual drugs?
5. Define Gerund.
6. What is the difference between modals & Semi modals?
7. What are the two basic rules for Direct and Indirect speech?

8. Define tenses and its types.
9. What is descriptive paragraph?
10. Define Dialogue Writing.

PART B — (5 × 5 = 25 marks)

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

11. (a) What makes water one of the most powerful and wonderful thing on the earth?

Or

- (b) In what way did the villagers help Mrs. Packletide shoot the tiger?

12. (a) What is the authors view is essential to Indian civilization?

Or

- (b) What are the impacts of Drug Abuse.

13. (a) Define Articles and its types with examples.

Or

- (b) Write a short notes on modals.

14. (a) Briefly explain Preposition with suitable examples.

Or

- (b) What are rules for Direct and Indirect speech?

15. (a) Bring out the format of Formal Letter Writing.

Or

- (b) List out the features of Paragraph writing.



PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Illustrate the concept of “The Cat” by Catharine M. Willson.
17. “The Hazards of Drug Abuse” in Dangers of Drug Abuse.
18. Analyse the idea of “Our Civilization” by C.E. Foad.
19. Define transformation of sentences Write its types with example
20. Develop the following hints into a readable passage and give a suitable title.

A rich farmer - lot of land - cattle and servants - two sons - happy life - After some years younger son unhappy - asked for his share of the property - wouldn't listen to father's advice - got his share - sold them all - went away to another country-fell into bad ways - soon all money gone - poor - no one to help him - understood his mistake.

**D-6703**

**Sub. Code**

**10113**

DISTANCE EDUCATION

B.C.A DEGREE EXAMINATION.

MAY 2021 EXAMINATION

&

MAY 2020 ARREAR EXAMINATION

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 the questions.

1. What are the different data types available in "C"?
2. Differentiate between do-while and while loop.
3. What is a global variable?
4. What are the uses of Pointers?
5. Why structure needs to be initialized?
6. Differentiate between Append Mode and Write mode in file.
7. What is the need for header file?

8. Mention the advantages of representing stacks using linked lists rather than arrays.
9. Define the term depth of a tree.
10. What is the need for hashing?

PART B — (5 × 5 = 25 marks)

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

11. (a) Write a C program that reads character one at a time and displays vowels only using switch case statement.

Or

- (b) Write short notes on:  
(i) Identifiers (ii) Keywords

12. (a) Describe in detail about the Preprocessors in C.

Or

- (b) Explain the standard string functions with example to support each type.

13. (a) Write short notes on Pointers and Structures.

Or

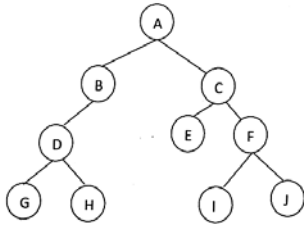
- (b) Write a program to copy the contents of one file to another.

14. (a) Explain the applications of Queue.

Or

- (b) What is stack? Indicate how stack is represented in 'C'.

15. (a) Given the following graph, write inorder, preorder and postorder traversals



Or

- (b) Write a C routine to count the numbers of nodes in a Binary search tree.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. What are the different operators available in C? Explain with examples.
17. Write function using pointers to add two matrices and return the resultant matrix to the calling function.
18. What do you mean by structure and union? Explain how a structure is passed to a function.
19. Explain the following with suitable diagrams:  
(a) Single linked list (b) Doubly linked list.
20. Explain various types of Binary tree with suitable diagrams.

**D-6661**

**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 2021 EXAMINATION**

**&**

**MAY 2020 ARREAR EXAMINATION**

**Second Semester**

**Part I – TAMIL PAPER – II**

**(CBCS 2018 – 19 Academic year onwards)**

**Time : Three hours**

**Maximum : 75 marks**

**பகுதி அ — (10 × 2 = 20 மதிப்பெண்கள்)**

**அனைத்து வினாக்களுக்கும் விடையளிக்க.**

1. வீரமாமுனிவரின் பிற நூல்கள் யாவை?
2. வீரமாமுனிவர் சூசையப்பரை எவ்வாறு அழைக்கிறார்?
3. உழிஞைப் போர் என்றால் என்ன?
4. தாய் கதையின் மையக்கரு எது?
5. முதலெழுத்துக்கள் யாவை?
6. வினைச்சொல் என்றால் என்ன?
7. தமிழுக்குத் தொண்டு செய்த கிறித்துவ தமிழறிஞர்கள் சிலரைக் குறிப்பிடுக.
8. புதினம் என்றால் என்ன?
9. ந. பிச்சமூர்த்தி குறிப்பு வரைக.
10. பெரிய புராணம் எதனை விளக்குகிறது?

பகுதி ஆ — (5 × 5 = 25 மதிப்பெண்கள்)

பின்வரும் வினாக்களுக்கு ஒரு பக்க அளவில் விடை தருக.

11. (அ) இறைவன் பொறை, மீடி, தாழ்வு கொண்டதன் காரணங்கள் யாவை?

(அல்லது)

(ஆ) நற்பலன் தருபவன் இறைவன் எனும் கூற்றினை வீரமாமுனிவர் வழி நின்று விவரி.

12. (அ) வானவீதியின் - சிறுகதையில் காணலாம் சமுதாயச் செய்திகளைத் தருக.

(அல்லது)

(ஆ) இகல் மதில் குடிமி கொண்ட மண்ணு மங்கலம் பற்றி நீவிர் அறிவது யாது?

13. (அ) அல்வழிப்புணர்ச்சியை சான்றுடன் விளக்குக.

(அல்லது)

(ஆ) மொழி இறுதியெழுத்து பற்றி நீவிர் அறிவது யாது?

14. (அ) இதழ்கள் தமிழுக்கு ஆற்றிவரும் செய்திகள் எவை? விளக்குக.

(அல்லது)

(ஆ) பெரிய புராணத்தில் தரப்படும் செய்திகள் எவை? விளக்குக.

15. (அ) இருபதாம் நூற்றாண்டில் உரைநடை வளர்ச்சிக்குப் பங்களிப்பு செய்த எவரேனும் இருவர் குறித்த செய்திகளைத் தருக.

(அல்லது)

(ஆ) சமண சமயத்தவர்கள் தமிழுக்கு ஆற்றிய தொண்டுதனை சுருக்கித் தருக.

பகுதி இ — (3 × 10 = 30 மதிப்பெண்கள்)

பின்வரும் வினாக்களில் மூன்றனுக்குக் கட்டுரை வடிவில் விடை தருக.

16. நும் பாடப் பகுதியில் அமைந்துள்ள தேம்பாவணி காட்சிப்படலத்தில் வீரமாமுனிவர் காட்டும் இறை பக்தியை விளக்குக.
17. கம்பன் புறத்திணையில் காணப்படும் தும்பைப் போர் குறித்து கட்டுரை வரைக.
18. ஆகுபெயரின் இலக்கணம் கூறி அதன் வகைகளைச் சான்றுகளுடன் விளக்குக.
19. வைணவர்கள் தமிழுக்கு ஆற்றிய தொண்டு குறித்து கட்டுரை வரைக.
20. இக்கால இலக்கியங்களில் புதுக்கவிதையின் தோற்றம் வளர்ச்சி குறித்து கட்டுரை வரைக.

**D-6662**

**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 YRS INTEGRATED) DEGREE  
EXAMINATION.

MAY 2021 EXAMINATION

&

MAY 2020 ARREAR EXAMINATION

Second Semester

Part I — COMMUNICATION SKILLS – II

(CBCS 2018-19 Academic Year onwards)

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. What are the codes of communication?
2. Explain the process of responding a communication.
3. Bring out the ways to improve one's fluency in spoken English.
4. Define labio-dental sounds with examples.
5. Explain the back vowels.
6. What is the significance of listening?
7. What is meant by emotional mode on conversation?
8. What is a reference in a resume?



9. Give details of goodwill letters.
10. Bring out the importance of technical writing.

SECTION B — (5 × 5 = 25 marks)

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

11. (a) Discuss the process of encoding and decoding a language in communication.

Or

- (b) Write a note on the various responses of communication.

12. (a) Write a note on the articulation of the consonants of English.

Or

- (b) Define and explain triphthongs.

13. (a) Give a brief account of presentation skills.

Or

- (b) What is the significance of telephonic interview?

14. (a) What are the guidelines to be followed while attending an interview?

Or

- (b) Write a paragraph on the topic “Health is Wealth”.

15. (a) Discuss the guidelines to publish an article in a newspaper.

Or

- (b) Enumerate the role played by an editor in a journal.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE of the following questions.

16. 'Communication skills allow you to understand and be understood by the others' – Discuss.
  17. Discuss the salient features of speaking English effectively.
  18. Write an essay on the types of purposes of writing.
  19. You are annoyed by the milk supply of the State Dairy Corporation. Write to the Chairman.
  20. Take a book you know well and write an alternate ending that is the exact opposite of the real ending.
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**D- 6663**

**Sub. Code**

**22**

DISTANCE EDUCATION

COMMON FOR BA/B.SC/BBA/BBA(BANKING)/BCA/MBA  
FIVE YEAR INTEGRATED DEGREE EXAMINATION.

MAY 2021 EXAMINATION

&

MAY 2020 ARREAR EXAMINATION

Second Semester

PART II – ENGLISH PAPER – II

(CBCS – 2018-19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Why did Wordsworth compose the poem “Lines” composed upon Westminster Bridge?
2. Describe the urn in the poem “Grecian Urn”.
3. What are the symbolic elements in “The Road Not Taken”?
4. Describe the war elements in “Strange Meeting”.
5. Why is “Gitanjali” considered as a song offering?
6. What is the relation between Antonio and Shylock in “The Merchant of Venice”?

7. Explain two types of essays.
8. What is the purpose of writing a report?
9. When do you write a Newsletter?
10. Write two significant Characteristics of interview skills.

PART B — (5 × 5 = 25 marks)

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

11. (a) Consider Shakespeare as a sonneteer.  

Or

(b) Discuss the character of Lucrezia in “Andrea Del Sarto”.
12. (a) Consider Wilfred Owen as a war poet in “Strange Meeting”.  

Or

(b) Discuss the theme of “Gitanjali”.
13. (a) Critically analyse Sarojini Naidu’s “The Coromandel Fishers”.  

Or

(b) Enumerate the background of the poem “The Express”.
14. (a) Discuss the “Pound of Flesh” scene in “The Merchant of Venice”.  

Or

(b) Discuss the character of Bassanio in “The Merchant of Venice”.

15. (a) Write a report on the recently celebrated college day function.

Or

- (b) Write a letter to the principal complaining about the lack of library facilities.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Critically appreciate “Grecian Urn” by John Keats.
17. Consider “The Road Not Taken” as an allegory.
18. Justify the title “The Coromandel Fishers” by Sarojini Naidu.
19. Consider “The Merchant of Venice” as a Romantic comedy.
20. Attempt a creative writing on the topic: “If you could be any famous person for a day, who would you want to be? Why?”
-

**D-6704**

**Sub. Code**

**10123**

DISTANCE EDUCATION

B.C.A. DEGREE EXAMINATION.

MAY 2021 EXAMINATION

&

MAY 2020 ARREAR EXAMINATION

Second Semester

PROGRAMMING IN C++

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Define Inline Functions.
2. What is mean by derived data types?
3. Define static member functions.
4. Define Destructors.
5. What is mean by hierarchical inheritance?
6. Define Polymorphism.
7. Define file pointers.
8. What is mean by random access file?

9. Give some examples of templates.
10. Define exceptions.

PART B — (5 × 5 = 25 marks)

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

11. (a) Explain principles of OOPS and its application.

Or

- (b) Explain operator overloading and its features.

12. (a) Discuss about Array within a class.

Or

- (b) Explain copy constructor and dynamic constructor with example.

13. (a) Explain virtual functions with pointers.

Or

- (b) Discuss about the stream classes in I/O operations.

14. (a) Explain in detail about working with files.

Or

- (b) Explain the advantages and features of Error handling.

15. (a) Explain the role of Exception handling.

Or

- (b) Discuss about user defined templates.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the different data types and its control structures.
  17. Discuss in detail about member functions and its types.
  18. Write short notes on:
    - (a) Pointers to derived class
    - (b) This pointer
    - (c) Pure virtual functions.
  19. Explain in detail about file pointers and their manipulations.
  20. Describe in detail about other exception handling especially in constructors.
-



**D-6664**

**Sub. Code**

**31A**

**DISTANCE EDUCATION**

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

**MAY 2021 EXAMINATION**

**&**

**MAY 2020 ARREAR EXAMINATION**

**Third Semester**

**Tamil**

**Part I – TAMIL – PAPER III**

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

**Time : Three hours**

**Maximum : 75 marks**

பகுதி அ — (10 × 2 = 20 மதிப்பெண்கள்)

அனைத்து வினாக்களுக்கும் விடையளிக்க.

1. முல்லைப்பாட்டின் ஆசிரியர் பெயரைத் தருக.
2. 'நெடுந்தொகை' என அழைக்கப்படும் எட்டுத் தொகை நூல் எது?
3. குறிஞ்சித்திணைக்கான உரிப்பொருளைக் குறிப்பிடுக.
4. பரணர் பாடியப் பாடல்களின் எண்ணிக்கையைத் தருக.
5. நற்றிணை – பெயர்க்காரணம் கூறுக.
6. பாசறை – சிறுகுறிப்பு வரைக.

7. பாடாண்திணையை வரையறு.
8. திருக்குறள் எப்பா வகையால் இயற்றப்பட்டுள்ளது?
9. நான்மணிக்கடிகையின் ஆசிரியர் யார்?
10. இராசராசனின் தமக்கையார் பெயரை எழுதுக.

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

பின்வரும் வினாக்களுக்கு ஒருபக்க அளவில் விடை தருக.

11. (அ) ஐங்குறுநூற்றைப் பற்றி விரிவாக எழுதுக.

(அல்லது)

(ஆ) குறிஞ்சித் திணையின் சிறப்புகளைத் தொகுத்துரைக்க.

12. (அ) பரணரின் புலமைத் திறத்தைப் பாராட்டியுரைக்க.

(அல்லது)

(ஆ) அகநானூற்று நூலின் அமைப்பும் பகுப்பும் குறித்து எழுதுக.

13. (அ) நற்றிணையில் சிலப்பதிகாரச் சாயல் அமைந்த பாடலை எடுத்துரைக்க.

(அல்லது)

(ஆ) கையறுநிலையைத் துறைகளுடன் விளக்குக.

14. (அ) அறிவுடையார் குறித்து வள்ளுவர் உரைக்குமாற்றை எழுதுக.

(அல்லது)

(ஆ) யார் யார் உயிர் வாழ மாட்டார்கள் என நான்மணிக்கடிகை கூறுகின்றது?

15. (அ) இராசஇராசசோழன் நாடகத்தின் சதைச்சுருக்கத்தை எழுதுக.

(அல்லது)

(ஆ) சுவடுகள் நாவலின் 'இராசாத்தி' பாத்திரப் படைப்பை மதிப்பிடுக.

பகுதி இ — (3 × 10 = 30 மதிப்பெண்கள்)

பின்வரும் வினாக்களில் மூன்றனுக்குக் கட்டுரை வடிவில் விடை தருக.

16. முல்லைநில இயல்புகளை முல்லைப்பாட்டின் வழி விரித்துரைக்க.
17. குறிஞ்சிக்குக் கபிலர் என்பார் கருத்தை நும் பாடப் பகுதியால் விளக்குக.
18. நப்பசலை பாடல்களின் கருத்துக்களைத் தொகுத்துரைக்க.
19. தலைமகன் பாசறையிலிருந்து பேசுமாற்றைச் சேந்தம்பூதனார் வழி விளக்குக.
20. 'சுவடுகள்' என்னும் நாவலின் கதைக்கருவை விளக்கி வரைக.

**D-6665**

**Sub. Code**

**31B**

DISTANCE EDUCATION

COMMON FOR B.A./B.Sc./B.C.A./M.B.A (5 yrs Integrated)  
DEGREE EXAMINATION.

MAY 2021 EXAMINATION

&

MAY 2020 ARREAR EXAMINATION

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. Define Interpersonal Behaviour.
2. Write about developing Skills.
3. What is mean by Etiquette?
4. What are significance of thinking ahead?
5. What is Self-acceptance?
6. What are the types of Goat Setting?
7. Write the importance of change Resistance.
8. Define Competitive Negotiation.

9. What are the canons of good human relations?
10. What is mean by stress?

PART B — (5 × 5 = 25 marks)

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

11. (a) What are the merits of good habits?

Or

- (b) Write the features of Interpersonal Behaviour?

12. (a) Write the Difference between Self-Concept and Self-Esteem.

Or

- (b) What are the Etiquettes in using mobile and telephones?

13. (a) Write the characteristic and style of leadership.

Or

- (b) Explain the importance of Goal setting.

14. (a) Write the structure and style of Negotiating skills?

Or

- (b) How to develop the positive attitudes?

15. (a) Write about the conflict Management.

Or

- (b) Explain the consequences of Anger Management.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Write about Human skills and its Habits.
  17. Explain about self-concept and its Meanings.
  18. What is mean by Decision Making Skills and what are the steps involved in Decision Making?
  19. Define Attitudes and How to develop the Positive attitude?
  20. Elaborate Human Relation Skill and the Need of good human relations.
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**D-6666**

**Sub. Code**

**32**

DISTANCE EDUCATION

COMMON FOR B.A./B.Sc./B.C.A./MBA (5 Yrs. Integrated)  
DEGREE EXAMINATION.

MAY 2021 EXAMINATION

&

MAY 2020 ARREAR EXAMINATION

Third Semester

English

Part II — ENGLISH PAPER — III

(CBCS 2018-19 Academic Year onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. What method does Swami use to get out of his father's challenge?
2. Who is Ratan?
3. What is the Verger's Opinion about reading?
4. How does Mr. James change his attitude?
5. Who was Eddie and how was he killed?
6. What sort of proposal is Anton Chekhov play the proposal about?
7. Write a short analysis of 'Progress' by St. John Ervine.

8. Who are Jean and Pierre in 'The Pie and the Tart'?
9. What are the travail in "The Refugee"?
10. Define Noun with examples.

PART B — (5 × 5 = 25 marks)

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

11. (a) Explain the Sense of Belonging and separation in 'Post Master'.

Or

- (b) What happened between the vicar and the Verger?

12. (a) How does Philip prove himself a mature and responsible man?

Or

- (b) How differently professor Henry Corrie and Mrs. Meldon think about war?

13. (a) Discuss the clash of tradition and modernity as presented in the boy comes here.

Or

- (b) Explain the James R. Waugh 'The Silver Idol'.

14. (a) Write the Jean's trick in 'The pie and the Tart'.

Or

- (b) Give a note on four friends experience in Reunion.



15. (a) Explain Parts of Speech.

Or

(b) How do you write an agenda for a meeting?

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. What is the central idea of the story The Diamond Necklace?
17. Why marriage proposal important to all the characters in “The Proposal” by Anton Chekhov.
18. Sketch the character of Gaultier from ‘The Pie and the Tart’.
19. Explain the political, Economical issues in Asif Currimbhoy’s ‘The Refugee’.
20. Differentiate verb and adverb with suitable examples.

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**D-6705**

<b>Sub. Code</b>
<b>10133/12733</b>

DISTANCE EDUCATION

B.C.A./B.C.A. (LATERAL) DEGREE EXAMINATION.

MAY 2021 EXAMINATION

&

MAY 2020 ARREAR EXAMINATION

Third Semester

Computer Applications

RELATIONAL DATABASE MANAGEMENT SYSTEMS  
(RDBMS)

(CBCS 2018-19 Academic Year onwards)

Time : 3 hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Define Database System.
2. Draw the symbol of entity and derived attribute.
3. What do you mean by integrity constraints?
4. State the uses of Domain relational calculus.
5. List out the set comparison operators.
6. Define BCNF.
7. What is Transaction State?
8. Why do need validation based protocols?

9. Differentiate primary index and secondary index.
10. Mention the uses of B+ tree.

PART B — (5 × 5 = 25 marks)

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

11. (a) Define the following terms :
  - (i) Entity
  - (ii) Schema.

Or

- (b) Draw the ER model for banking application.
12. (a) Describe the Querying relational data.

Or

- (b) What are the various integrity constraints? Explain them.
13. (a) List and explain different join queries with examples.

Or

- (b) Illustrate 1<sup>st</sup> and 2<sup>nd</sup> Normal forms with examples.
14. (a) Explain the following terms :
  - (i) Durability
  - (ii) Serializability.

Or

- (b) Write a short note on Buffer Management.

15. (a) Illustrate the concepts of File Organization and Indexing.

Or

- (b) Elaborate the mechanisms of Hash Based Indexing?

PART C — ( $3 \times 10 = 30$  marks)

Answer any THREE questions.

16. Describe the database system structure in detail.
17. Illustrate the various functions of Relation Algebra.
18. Explicate the concepts of lossless join decomposition.
19. Briefly discuss about various Transaction Protocols.
20. Give a brief account on Performance Tuning.

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**D-7172**

**Sub. Code**

**41A**

**DISTANCE EDUCATION**

**Common for B.A/B.Sc/B.C.A DEGREE EXAMINATION.**

**MAY 2021 EXAMINATION**

**&**

**MAY 2020 ARREAR EXAMINATION**

**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. அந்தாதித் தொடை - குறிப்பு வரைக.
2. அகவற்பா எனப்படும் பா யாது?
3. கீர்த்தனை எத்தனைப் பகதிகளைக் கொண்டது?
4. பெருத்திணை என்றால் என்ன?
5. கையறுநிலை - கொருள் விளக்கம் தருக.
6. பிறிது மொழிதல் அணியை விளக்குக.
7. 'புலவலாற்றப்படை' எனக் குறிப்பிடப்படும் ஆற்றுப்படை நூல் யாது?

8. இரட்டைக் காப்பியங்கள் எவை?
9. இயேசு காவியம் - ஆசிரியர் குறிப்பு வரைக.
10. 'பாஞ்சாலி சபதம்' காப்பியத்தின் முதன்மைப் பாத்திரம் யார்?

பகுதி ஆ — (5× 5= 25 மதிப்பெண்கள்)

பின்வரும் வினாக்களுக்கு ஒரு பக்க அளவில் விடை தருக.

11. (அ) அசை என்றால் என்ன? அதன் வகைகளை விளக்கி வரைக.

(அல்லது)

(ஆ) வெண்பாவின் இலக்கணத்தைச் சான்று காட்டி விளக்குக.

12. (அ) அன்பின் ஐந்திணைகளுக்கான விளக்கங்களை எழுதுக.

(அல்லது)

(ஆ) 'செவியறிவுறாஉ' என்பதை விளக்கிச் சான்று காட்டுக.

13. (அ) உவமை அணி இலக்கணத்தை வகைகளுடன் விளக்குக.

(அல்லது)

(ஆ) மொழி நடையில் நிறுத்தல் குறிகளை எவ்வெவ்விடங்களில் பயன்படுத்த வேண்டும்?

14. (அ) அகநானூறு குறித்த செய்திகளைத் தொகுத்துரைக்க.

(அல்லது)

(ஆ) திருக்குறள் பெருமைகளை நும் பாடப் பகுதியால் எடுத்துரைக்க.

15. (அ) சிலப்பதிகாரத்தின் தனிச்சிறப்புகளைப் புலப்படுத்துக.

(அல்லது)

(ஆ) சிற்பியின் 'மௌன மயக்கங்கள்' கவிதைகளை மதிப்பிடுக.

பகுதி இ — (3 × 10 = 30 மதிப்பெண்கள்)

பின்வரும் வினாக்களில் மூன்றனுக்குக் கட்டுரை வடிவில் விடை தருக.

16. தொடை வகைகளைச் சான்றுகளுடன் கட்டுரைக்க.
17. காஞ்சித்திணையின் துறைகளைச் சான்றுகள் காட்டி விளக்குக.
18. செய்யுள் படைப்பில் அணி இலக்கணம் பெறுமிடத்தை எடுத்துரைக்க.
19. சங்க இலக்கியங்களின் வெவ்வித தன்மைகளை விரித்துரைக்க.
20. பாஞ்சாலி பாத்திரப் படைப்பில் பாரதியார் காட்டும் முக்கியத்துவத்தைக் கட்டுரைக்க.

**D-7173**

**Sub. Code**

**41B**

DISTANCE EDUCATION  
COMMON FOR B.A./B.Sc./B.C.A. DEGREE EXAMINATION  
MAY 2021 EXAMINATION  
&  
MAY 2020 ARREAR EXAMINATION  
Fourth Semester

**PART – I HUMAN SKILLS DEVELOPMENT - II**

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. What are the roles of counsellor?
2. What is mean by communication?
3. Explain Organization skills.
4. What are the causes of Multi tasking skills?
5. Define leader.
6. What are the technical skills?
7. Explain the human system understanding skills.
8. Write about the organization and their major interaction.



9. How do you plan your Presentation?
10. What are the importances of problem solving skills?

SECTION B — (5 × 5 = 25 marks)

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

11. (a) Define counselling and state the techniques of counselling.

Or

- (b) Give description about attention.

12. (a) Explain the conceptual skills.

Or

- (b) Write about the organization skills and its importance.

13. (a) What are the qualities of a good leader?

Or

- (b) Write the preparing and planning for presentation skills.

14. (a) Define society and their major interaction.

Or

- (b) What are the major interactions in human system with organisation?

15. (a) Define problem solving skills.

Or

- (b) What is mean by cooperative learning skills?

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Write the importance and techniques of counselling.
  17. Define technical skills. What are the tools and procedure of technical skills?
  18. Explain the causes and responsibilities of multi-tasking skills.
  19. Elaborate the understanding skills in human system.
  20. What are the causes of making social responsibilities?
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**D-7174**

**Sub. Code**

**42**

**DISTANCE EDUCATION**

**Common for B.A./B.Sc./B.C.A. DEGREE EXAMINATION**

**MAY 2021 EXAMINATION**

**&**

**MAY 2020 ARREAR EXAMINATION**

**Fourth Semester**

**PART II ENGLISH PAPER - IV**

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

**Time : Three hours**

**Maximum : 75 marks**

**SECTION A — (10 × 2 = 20 marks)**

**Answer ALL the questions.**

1. Who is Schatz in 'A Day's wait'?
2. Write about Efim and Elisha in "Two old Men"
3. What happens during the Ambassador's garden party in 'Pygmalion'?
4. Discuss Swami's character as youthful.
5. How Romeo is affected by Balthazar's news?
6. Who is Polixenes?
7. Who is Leontes in Shakespeare's The Winter's tale?
8. Define phrase with examples.

9. What are the Concord rules?  
10. What is question tag?

SECTION B — (5 × 5 = 25 marks)

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

11. (a) Why does the boy tell his father to leave the sickroom in "A Day's wait"?

Or

- (b) Explain the central theme of 'Two old men'.  
12. (a) In 'Pygmalion', how does Higgins display his passion and respect for the English language?

Or

- (b) Why does Higgins agree to educate the flower girl in Shaw's 'Pygmalion'?  
13. (a) Write about the "Predators" Hallucination in 'Swami and friends'.

Or

- (b) Compare and contrast the Venice and Belmont in "The Merchant of Venice".  
14. (a) Write the opening scene of the play "The Winter's Tale".

Or

- (b) Why is Nehru's speech called as Captivator of hearts?

15. (a) What is the significance of the first meeting held by Nehru?

Or

- (b) Expand the following proverb: The child is father of the man.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Write a critical appreciation of Jim Corbett's 'Lalajee'.
17. How are Victorian social classes represented in Pygmalion?
18. Write about Bassano's reaction to Antonio's willingness to sign the bond.
19. Write an essay on Phrase and Clause with suitable examples.
20. What are the skills required for group discussion?
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**D-7240**

**Sub. Code**

**10143/12743**

DISTANCE EDUCATION

BCA/BCA (LATERAL ENTRY) DEGREE EXAMINATION

MAY 2021 EXAMINATION

&

MAY 2020 ARREAR EXAMINATION

Fourth Semester

INTERNET AND JAVA PROGRAMMING

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. What is an E-mail?
2. How search engine can be used?
3. How JVM is used during execution?
4. Define the term labeled loop.
5. What is known as final variable?
6. Define the term wrapper classes.
7. Define exception. Write down the types of exception.
8. What is an applet?
9. Define the term stream?
10. What are character streams?

SECTION B — (5 × 5 = 25 marks)

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

11. (a) Explain how chatting is carried out in internet.

Or

- (b) Write a short note on IRC.

12. (a) Discuss the features of OOP.

Or

- (b) Write about various data types of java.

13. (a) Write a program to illustrate method over loading.

Or

- (b) Write about enumerated type with an example.

14. (a) Briefly write about thread priority.

Or

- (b) How exceptions are used for debugging? Explain.

15. (a) Discuss in detail about byte stream classes.

Or

- (b) Write a program to count the number of characters in a file.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Elaborately explain about FTP.

17. Discuss the various types of operators in java with examples.

18. How an interface can be extended? Explain with an example.
  19. Sketch and discuss about the life cycle of a thread.
  20. Write a program to copy the contents of one file to another.
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**D-7241**

**Sub. Code**

**10151/  
12751**

DISTANCE EDUCATION

B.C.A./B.C.A. (Lateral Entry) DEGREE EXAMINATION.

MAY 2021 EXAMINATION

&

MAY 2020 ARREAR EXAMINATION

Fifth Semester

ACCOUNTING FUNDAMENTALS

(CBCS – 2018-19 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define Cost Accounting.
2. State any two functions of Accounting.
3. What do you mean by Accounting concepts?
4. What is meant by International Accounting Standards?
5. What is Journal?
6. What are Compensating Errors?
7. Define Single Entry.

8. What do you mean by Conversion method?
9. What is meant by Liquidity?
10. Mention any two limitations of ratio analysis.

SECTION B — (5 × 5 = 25 marks)

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

11. (a) Explain the scope of Management Accounting.

Or

- (b) Describe the advantages of Accounting.

12. (a) List out the characteristics of Accounting concepts and conventions.

Or

- (b) State the objectives of International Accounting standards.

13. (a) The following errors were found in the books of Prabhakar & sons. Give the necessary entries to correct them.

- (i) Salary of ₹ 1,000 paid to Mohan due to him has been debited to his Personal account
- (ii) ₹ 1,500 paid on cash for a typewriter was charged to office expenses account
- (iii) ₹ 5,000 paid for furniture purchased has been charged to Purchases account
- (iv) An amount of ₹ 500 withdrawn by the proprietor for his personal use has been debited to Trade expenses account
- (v) ₹ 200 received from Shanthi & co has been wrongly entered as from Shajahan & Co.

Or

(b) Enter the following transactions in the books of Shri. Kalaimani

2017		₹
Nov. 2	Started business with cash	50,000
8	Paid rent for the month of October	1,500
10	Purchased office equipment	7,500
10	Cash purchases made	15,000
11	Cash sales	10,000
12	Commission received	4,000
13	Interest paid for loan	2,000

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

Or

- (b) From the following information ascertain opening stock (i.e. on 1.1.2017)

	₹
Purchases made during 2017	2,50,000
Sales made during 2017	3,25,000
Stock on 31.12.2017	60,000
Wages	3,000
Rate of gross profit on cost	25%

15. (a) Calculate current ratio from the following

	₹
Sundry debtors	1,00,000
Bills receivable	80,000
Stock	50,000
Sundry creditors	80,000
Bills payable	40,000
Outstanding salaries	20,000
Prepaid expenses	2,000
Marketable securities	20,000
Bank overdraft	30,000
Cash in hand and at bank	1,00,000

Or

	₹
(b) Net annual credit sales	75,000
Total debtors	18,000
Bills receivable	6,000

Find out :

- (i) Debtors turnover ratio
- (ii) Average collection period.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Distinguish between Financial accounting and Management accounting.
17. What are accounting conventions? Explain them in detail.

18. From the following Trial balance of Mr. Mani prepare Trading and Profit and Loss a/c for the year ending 31<sup>st</sup> March 2018 and the Balance Sheet as on that date

Particulars	Debit	Credit
	₹	₹
Capital	–	1,20,000
Sales	–	75,000
Purchases	45,000	
Salaries	6,000	
Rent	4,500	
Insurance premium	900	
Drawings	15,000	
Machinery	84,000	
Bank	13,500	
Cash	13,500	
Stock 1.4.2017	15,600	
Sundry debtors	7,500	
Sundry creditors	–	10,500
	<u>2,05,500</u>	<u>2,05,500</u>

Adjustments required :

- Stock on 31.3.2018 ₹ 14,700
- Salary unpaid ₹ 1,000
- Rent paid in advance ₹ 750
- Create 5% Provision for bad and doubtful debts on sundry debtors.

19. A trader keeps his books under single entry system. He wants to convert into double entry system with the help of the following data, prepare Trading and Profit and Loss account and the Balance Sheet.

	1.1.2018	31.12.2018
	₹	₹
Stock	15,000	7,500
Debtors	37,500	52,500
Cash	3,750	6,000
Furniture	1,500	1,500
Creditors	22,500	26,250

Other information :

Drawings ₹ 6,000, Discounts received ₹ 2,250, Bad debts ₹ 750, Discount allowed ₹ 1,500, Other expenses ₹ 4,500, Cash paid to creditors ₹ 67,500, Cash collected from debtors ₹ 80,250, Return inwards ₹ 2,250, Return outwards ₹ 750.

Provide depreciation on furniture @ 5%.

20. From the following information, prepare Balance Sheet

- Current ratio 2.5
- Liquid ratio 1.5
- Fixed assets/Proprietary funds 0.75
- Working capital ₹ 60,000
- Reserve and surplus ₹ 40,000
- Bank O/d ₹ 15,000
- There is no long term loan or fictitious assets.

**D-7242**

**Sub. Code**

**10152/12752**

DISTANCE EDUCATION

B.C.A./B.C.A. (Lateral Entry) DEGREE EXAMINATION

MAY 2021 EXAMINATION

&

MAY 2020 ARREAR EXAMINATION

Fifth Semester

Computer Applications

COMPUTER GRAPHICS

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What is meant by resolution of a CRT?
2. How does a point (x,y) is determined with respect to a circle function?
3. Write the difference between uniform scaling and differential scaling.
4. What is a clip window?
5. What is meant by convex hull?
6. What is a Torus? How it is generated?

7. Distinguish the term “elevations” from “plan view”.
8. What are isometric projections?
9. What is meant by “REYES”? Write its feature and principles.
10. List out the steps of an animation sequence.

PART B — (5 × 5 = 25 marks)

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

11. (a) Write down the midpoint circle algorithm. Also plot the coordinates on the first quadrant with  $r=10$ .

Or

- (b) Compare and contrast random scan systems with raster scan systems.

12. (a) Write notes on Cyrus beck line clipping method.

Or

- (b) Discuss the concept of viewing pipeline with viewing coordinate reference frame.

13. (a) Illustrate and explain the uniform, periodic B-splines curves.

Or

- (b) Write about quadric surfaces.

14. (a) Narrate the process of specifying the view plane.

Or

- (b) With neat diagram and matrices, discuss process of coordinate axes rotational transformations.



15. (a) Elucidate the concept of depth – sorting method.

Or

(b) Give a note on motion specifications that are used for animations.

PART C — ( $3 \times 10 = 30$  marks)

Answer any THREE questions.

16. Explain the concept of Bresenham's line drawing technique with algorithm.

17. List and explain the basic two dimensional transformation principles in detail.

18. Describe the concept of Bezier curves and Bezier surfaces in detail.

19. Compare and contrast parallel projections with perspective projections.

20. Write notes on:

(a) Area subdivision method (5)

(b) Octree methods. (5)

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**D-7243**

**Sub. Code**

**10153/12753**

DISTANCE EDUCATION

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

MAY 2021 EXAMINATION

&

MAY 2020 ARREAR EXAMINATION

Fifth Semester

Computer Applications

OPERATING SYSTEMS

(CBCS 2018 – 2019 Academic Year Onwards)

Time : 3 hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define the term “Fault tolerant systems”.
2. Identify any four functions that are used for communication system call.
3. What is meant by degree of multiprogramming?
4. What is turn around time?
5. What is meant by a critical section?
6. Distinguish request edge from assignment edge with respect to resource allocation graph.

7. What is an internal fragmentation?
8. What is meant by hit ratio related to TLB?
9. Differentiate object file from executable file.
10. What is the use of consistency semantics?

PART B — (5 × 5 = 25 marks)

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

11. (a) Write about computer system operation.

Or

- (b) Discuss on distributed systems.

12. (a) Give a note on round robin scheduling policy.

Or

- (b) Elucidate the concept of shortest job first scheduling strategy the utilizes CPU resources.

13. (a) Narrate the readers – writers problem.

Or

- (b) Explain the deadlock characterization features.

14. (a) Discuss the basic method of paging memory management scheme.

Or

- (b) Write a note on swapping mechanism.

15. (a) List and explain the various file access methods.

Or

(b) Summarize the concept of linked allocation that is used for disk space management.

PART C — ( $3 \times 10 = 30$  marks)

Answer any THREE questions.

16. Give a detailed description on operating system calls.

17. With an example, discuss the concept of inter process communication.

18. With algorithm, explain the critical section problem.

19. Describe the concept of segmentation with hardware details and protection, sharing features.

20. List and explain the various disk scheduling policies in detail.

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**D-7244**

**Sub. Code**

**10161/12761**

DISTANCE EDUCATION

B.C.A/B.C.A. (Lateral Entry) DEGREE EXAMINATION.

MAY 2021 EXAMINATION

&

MAY 2020 ARREAR EXAMINATION

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. What are repeated use plans?
2. What is meant by organization structure?
3. What are the characteristics of linear programming?
4. What is the use of simplex method?
5. What is the difference between a Gantt chart and a PERT chart?
6. Define probability.
7. What do you mean by replacement theory?
8. What is replacement in operation research?
9. Write a note on replacement policy.
10. What do you understand by age replacement?

PART B — (5 × 5 = 25 marks)

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

11. (a) Write down the classical theory of organization.

Or

- (b) What are the advantages of planning?

12. (a) Solve the following assignment problem.

Worker Time in minutes

	Job 1	Job 2	Job 3
A	4	2	7
B	8	5	3
C	4	5	6

Or

- (b) Solve using the Simplex method the following problem:

Maximize  $Z = f(x, y) = 3x + 2y$

Subject to:

$$2x + y \leq 18$$

$$2x + 3y \leq 42$$

$$3x + y \leq 24$$

$$x \geq 0, y \geq 0.$$

13. (a) Draw network diagram from the following information.

Activity	Name of the event
1-2	A
1-3	B
2-3	C
2-4	D
3-4	E
3-5	F
4-5	G

Or

- (b) What are the steps involved in the PERT planning process?

14. (a) A milk plant is offered an equipment A which is priced at Rs.60,000 and the costs of operation and maintenance are estimated to be Rs. 10,000 for each of the first 5 years, increasing every year by Rs.3,000 per year in the sixth and subsequent years. If money carries the rate of interest 10% per annum what would the optimal replacement period?

Or

- (b) A Manufacturer is offered two machines A and B. Machine A is priced at Rs.5,000 and running cost is estimated at Rs.800 for each of the first five years, increasing by Rs.200 per year in the sixth and subsequent years. Machine B, with the same capacity as A, costs Rs.2,500, but has running cost of Rs. 1,200 per year for six years, thereafter increasing by Rs.200 per year. If money is worth 10% per year, which machine should be purchased? (Assume that the machines will eventually be sold for scrap at a negligible price).
15. (a) State the principles of replacement policy.

Or

- (b) Write down the types of replacement policy.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the principles of organization.
17. Solve the following transportation problem to minimize the total cost of transportation.

	Destination				
Origin	1	2	3	4	Supply
1	14	56	48	27	70
2	82	35	21	81	47
3	99	31	71	63	93
Demand	70	35	45	60	210

18. The following table gives the activities of a project and their duration in days.

Activity	1-2	1-6	2-3	2-4	3-5	4-5	6-7	5-8	7-8
Duration	7	6	14	5	11	7	11	4	18

Draw the network diagram and find the critical path.

19. A research team is planned to raise the strength of 50 chemists and then to remain at that level. The number of recruits depends on their length of service and are as follows.

Year		1	2	3	4	5	6
% left at the end of year		5	36	56	63	68	73
Year		7	8	9	10		
% left at the end of year		79	87	97	100		

What is the recruitment per year to maintain the required strength? There are 8 senior posts for which the length of service is the main criterion. What is the average length of service after which a new entrant expects promotion to one of the posts?

20. A firm is considering replacement of an equipment, whose first cost is Rs.4,000 and the scrap value is negligible at the end of any year. Based on experience, it was found that the maintenance cost is zero during the first year and it increases by Rs.200 every year thereafter.
- When should the equipment be replaced if  $i=0\%$ ?
  - When should the equipment be replaced if  $i = 12\%$ ?
  - When  $i = 0\%$ . In this problem
  - First cost = Rs.4,000
  - Maintenance cost is Rs.0 during the first year and it increases by Rs.200 every year thereafter.



**D-7245**

**Sub. Code**

**10162/12762**

DISTANCE EDUCATION

B.C.A./B.C.A.(Lateral Entry) DEGREE EXAMINATION

MAY 2021 EXAMINATION

&

MAY 2020 ARREAR EXAMINATION

Sixth Semester

SYSTEM ANALYSIS AND DESIGN

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Write the types of system available in system concepts.
2. Expand MIS and OAS
3. What is mean by feasibility study?
4. Define decision tree.
5. How to do input validation?
6. Define forms design.
7. What is mean by forms control?
8. Define system testing.
9. What are the two types of system maintenance?
10. Define System Evaluation.

SECTION B — (5 × 5 = 25 marks)

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

11. (a) Explain the characteristics of system concepts.

Or

- (b) Write the role of MIS in an organization.

12. (a) Explain any two fact finding techniques. Give its advantages and disadvantages.

Or

- (b) Discuss any three feasibilities need to be studied during feasible analysis.

13. (a) Describe in detail about form driven methodology.

Or

- (b) Explain the types of forms available in system design.

14. (a) What are the types of files used in an organization?

Or

- (b) Discuss briefly about flow chart. Give example.

15. (a) Write short notes on conversion plan.

Or

- (b) Explain the evaluation process in system maintenance.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. What are the essential qualifications of a System analyst? Discuss the various role played by a System Analyst.
17. What is Data Flow Diagram? Discuss the various symbols and rules for drawing DFD with an example.
18. Explain the process and stages of system design.
19. Describe briefly about the types of databases.
20. Discuss the major phases in hardware and software selection. Elaborate with suitable examples.

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**D-7246**

**Sub. Code**

**10163/12763**

DISTANCE EDUCATION

B.C.A./B.C.A. (Lateral Entry) DEGREE EXAMINATION

MAY 2021 EXAMINATION

&

MAY 2020 ARREAR EXAMINATION

Sixth Semester

VISUAL BASIC PROGRAMMING

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Define: Forms
2. What is meant by property of a tool?
3. Define: Event
4. State the syntax of while .....do with an example.
5. What is meant by recursive function?
6. Define: MDI
7. What is meant by indexing?
8. What are control arrays?

9. What are the methods used for accessing record set object?
10. Define: ADO

SECTION B — (5 × 5 = 25 marks)

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

11. (a) Write a note on Event driven procedures.

Or

- (b) How to make an EXE file? Explain with an example.

12. (a) Explain the various data types of Visual Basic.

Or

- (b) Discuss the uses of VB controls.

13. (a) Explain any five numeric functions with example.

Or

- (b) Write a note on Event handling in VB.

14. (a) Discuss the process of creating menus and adding code.

Or

- (b) Write a note on MDI Child forms.

15. (a) Explain about DAO and its properties.

Or

- (b) Compare the characteristics of DAO and ADO.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Describe the working environment of VB.
  17. Illustrate the various Looping and decision control structures in VB.
  18. Elaborate on the various string handling functions.
  19. Explain the operations with respect to MDI and child forms.
  20. Describe about database connectivity with VB application with an example.
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