DISTANCE EDUCATION

COMMON FOR B.A./B.Sc./B.B.A./B.B.A. (Banking)/B.C.A./
M.B.A. (Five Year Integrated) DEGREE EXAMINATION,
DECEMBER 2023.

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.　குருவாயூர் கண்ணனின் நிறம் யாது?

2.　ஆயர்பாடி மாளிகையில் கண்ணன் செய்வது யாது?

3.　கண்ணதாசனின் இயற்பெயரைக் குறிப்பிடுக.

4.　பட்டுக்கோட்டை கல்யாண சுந்தரம் பிறந்த ஊர் யாது?

5.　'செய்யும் தொழிலே தெய்வம்' என்னும் பாடல் இடம்பெற்ற
　　திரைப்படம்?

6.　பாரத மாதாவிற்குத் 'திருப்பள்ளி எழுச்சி' பாடியவர் யார்?

7.　சர்ப்ப யாகம் - நூல் குறிப்பு வரைக.

8.　கண்ணகியின் சிலம்பில் எப்பரல்கள் இருந்தன?

9.　உமறுப்புலவரை ஆதரித்த வள்ளல் பெயரை எழுதுக.

10.　தேம்பாவணி - பொருள் தருக.

பகுதி ஆ — (5 × 5 = 25 மதிப்பெண்கள்)

பின்வரும் வினாக்களுக்கு ஒரு பக்க அளவில் விடை தருக.

11. (அ) கண்ணன் துயில் எழுப்ப கோபியரைக் கண்ணதாசன் அழைக்குமாற்றை எழுதுக.

(அல்லது)

(ஆ) கவிஞர் பட்டுக்கோட்டை கல்யாண சுந்தரம் பற்றி குறிப்பு வரைக.

12. (அ) கண்ணனின் குறும்புகளைப் பாரதியார் எங்ஙனம் பாடுகிறார்?

(அல்லது)

(ஆ) பிறை நிலவைக் கவிஞர் பெ.தூரன் உருவகிக்குமாற்றை விவரிக்க.

13. (அ) 'வெறும் புகழ்' கவிதை வழி வல்லிக்கண்ணன் யதார்த்தத்தை எவ்வாறு உணர்த்துகிறார்?

(அல்லது)

(ஆ) கண்ணகியின் வருகையை வாயில் காவலன் மன்னனுக்கு எங்ஙனம் அறிவிக்கிறான்?

14. (அ) நபிகள் நாயகம் அறபியை ஆட்கொண்ட திறத்தை விளக்கி வரைக.

(அல்லது)

(ஆ) இறைவனை வணங்க கன்னித்தாயும் சூசையும் ஆயர்களை அழைக்குமாற்றை எழுதுக.

15. (அ) வழக்குரை காதையை சிலப்பதிகாரத்தின் வழி நின்று விளக்குக.

(அல்லது)

(ஆ) கு.ப. இராஜகோபாலனின் படைப்புகளை விளக்குக.

2   D–1788

பின்வரும் வினாக்களில் மூன்றனுக்குக் கட்டுரை வடிவில் விடை தருக.

16. கண்ணதாசன் கண்ணனைப் புகழ்ந்துரைக்குமாற்றை விளக்கி வரைக.

17. பாரதிதாசன் உலகப்பன் பாடல் வழிக் கூறும் கருத்துக்களைத் தொகுத்துரைக்க.

18. இராமனின் சிறப்புகளைக் கம்பர் எடுத்துரைக்குமாற்றை விவரிக்க.

19. இளங்கோவடிகளின் கவித்திறத்தை நும் பாடப் பகுதியால் பாராட்டியுரைக்க.

20. தேம்பாவணி காப்பியச் சிறப்புகளை எடுத்துரைக்க.

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D–1788

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Write the origin of the term 'Communication'.

2. Write the meaning of 'Communication'.

3. What is 'Oral Communication'?

4. Write any one importance of Oral Communication.

5. When do we claim that a communication is effective?

6. What is called as Body Language?

7. What are gestures?

8. Mention any one purpose of 'Meeting'.

9. What is logical presentation in Group Discussion?

10. Define 'Professional report'.

SECTION B — (5 × 5 = 25 marks)

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

11. (a) Discuss the different types of Communication.

Or

(b) Write a note on Intonation.

12. (a) Discuss telephonic conversation as one of the forms of dyadic conversation.

Or

(b) Discuss the forms of Oral Communication.

13. (a) Write on the Format of a Report.

Or

(b) Write a note on the types of Reports.

14. (a) Write a note on Content Writing.

Or

(b) Discuss the three stages 'drafting, correction and final draft preparation'.

15. (a) Discuss the two senses in which the word 'meeting' is used.

Or

(b) Discuss the purpose of conducting group discussion.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Examine the principles of effective communication.

17. Discuss the purpose of meetings.

D–1789

18. Elucidate the features of written communication.

19. Analyse the steps involved in Essay Writing.

20. Explain the ways of organizing a group discussion.

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D–1789

DISTANCE EDUCATION

COMMON FOR B.A/B.Sc./B.B.A./B.B.A. (BANKING)/B.C.A./M.B.A. (5 YEAR INTEGRATED) DEGREE EXAMINATION, DECEMBER 2023.

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. What makes water one of the most powerful and wonderful things on earth?

2. Why did Mrs. Packletide want to kill a tiger?

3. From where did Narwa and Haria collect bamboos for basket making?

4. How does the essay 'On Letter Writing' begin?

5. What are the good points of our civilization according to C.E.M. Joad?

6. Write Joad's opinion on machines in modern man's life.

7. Put the verbs in the brackets in the correct tense:

    (a) I _____ (fall) asleep in the middle of his boring story.

    (b) Even the best of students _____ (make) such mistakes.

8. Fill in the blanks with Prepositions:

(a) He is running _____ the temple.

(b) He left _____ London yesterday.

9. Fill in the blanks with suitable Articles.

(a) Which road is _____ right one?

(b) He is _____ salesman of _____ rare merit.

10. Write the purpose of Précis Writing.

PART B — (5 × 5 = 25 marks)

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

11. (a) What are the measures that are used to present soil erosion? ('Water the Elixir of Life')

Or

(b) Do you think Mrs. Packletide was able to achieve her heart's desire? Give reasons.

12. (a) How does Jim Corbett portray the friendship between Nawara and Haria?

Or

(b) How should a letter be written according to Alpha of the Plough (A.G. Gardiner)?

13. (a) Present the description given by Joad on modern civilization man's life.

Or

(b) Write a short summary of 'Food' by J.B.S. Haldane.

2 **D–1790**

14. (a) You have arranged to meet a friend at the railway station but you could not do so. Write a letter of apology, explaining the lapse on your part.

Or

(b) Use the correct form choosing from the verbs given in brackets:

(i) Ten thousand rupees a month _____ (is /are) a good salary.

(ii) Six months _____ (is/are) a long time to stay away from home.

(iii) Either my mother or I _____ (am/is) to do the work.

(iv) Neither Sita nor her friends _____ (are/is) attending marriage.

(v) Bread and butter _____ (is/are) enough for me.

15. (a) Build a dialogue between you and your teacher. You are asking him/her to give you guidance for choosing a suitable course.

Or

(b) Write a paragraph on the following topic. 'The First money I earned'.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Why does C.V. Raman call water as elixir? Justify.

17. Bring out the humour in 'Mrs. Packletide's Tiger'.

18. What does C.E. Joad talk about our civilization in his essay 'Our Civilization'? Explain.

3

D–1790

19. Write a paragraph on using the hints given below:

A king unhappy – his people lazy – plans to teach them a lesson – puts a big stone in the middle of the road and purse of gold under it – many people pass by – no effort made to remove the stone – all go round it – curse the stone – blame the government – and await its removal – the stone lays there for a month – a stranger passes by – removes the stone with difficulty – finds the purse of gold – feels happy – the people feel ashamed...

20. Report the following conversation in Indirect Speech.

   (a) Can you tell me how to find the post office?

   (b) Which post office do you mean?

   (c) Is there more than one? I mean the one on the campus.

   (d) Oh, the Campus Post Office? Go straight along this road to the third street light and then turn right.

   (e) I see. Will it be open at this time?

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D–1790

DISTANCE EDUCATION

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

First Semester

C AND DATA STRUCTURE

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours   Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Define relational operator.

2. Write a statement to read a string of characters into the array words.

3. What is meant by call-by value and call-by reference?

4. What are the features of pointers?

5. Why do we use enum in C?

6. What are bit fields in C?

7. When stack is said to be overflow?

8. What is the use of header linked list?

9. Define leaf node and siblings with example.

10. Trace the binary tree of pre-order traversal : PFBHGSRYTWZ.

PART B — (5 × 5 = 25 marks)

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

11. (a) Explain else-if ladder with the help of flowchart and program.

Or

(b) Write a short notes on :

(i) gets( )

(ii) puts( )

12. (a) Illustrate one-dimensional arrays with example program.

Or

(b) Explain the concept of array of pointers with example.

13. (a) How structure variables (objects) are passed as an argument to a function? Explain with suitable example.

Or

(b) Define Union. How to declare and initialize Union members? Give a example.

14. (a) Write short note on circular queue.

Or

(b) Explain insertion operation of singly linked list with algorithm.

15. (a) Explain the different types of binary trees with suitable diagrams.

Or

(b) Discuss various representation of binary tree with example.

2   **D–1917**

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. List and explain looping statements in C with examples.

17. Discuss the various string handling functions available in C.

18. Write a C program to count number of characters, lines, words of a file.

19. Discuss various representation of linked list.

20. Describe in detail about hashing techniques.

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DISTANCE EDUCATION

Common for B.A./B.Sc./B.B.A./B.B.A. (Banking)/B.C.A./M.B.A.
(5 year integrated) DEGREE EXAMINATION,
DECEMBER 2023.

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.   வீரமாமுனிவர் - குறிப்பு வரைக.

2.   ஆயர்கள் குழந்தையை எவ்வாறு போற்றினர்?

3.   "மதிற்போர்" என்றால் என்ன?

4.   நீல பத்ம நாபனின் சிறுகதைகள் இரண்டிகைக் கூறுக.

5.   ஐய வினா என்றால் என்ன?

6.   பால் எத்தனை வகைப்படும்?

7.   நாடகத்மிழ் - குறிப்பு வரைக.

8.   மரபுக் கவிதை என்றால் என்ன?

9.   சமணர்கள் இயற்றிய அறநூல்கள் யாவை?

10. தமிழில் இணையத்தின் பங்கு யாது?

பின்வரும் வினாக்களுக்கு ஒரு பக்க அளவில் விடை தருக.

11. (அ) "சாந்தி உள்ளம் உருகி போற்றி நின்றதனை" - விளக்குக.

(அல்லது)

(ஆ) பண்ணாற்றும் மருந்தால் பாவம் தீர்க்க வந்த காலத்தினை விவரி.

12. (அ) "விமோசனம்" சிறுகதை உணர்த்தும் பெண்களின் நிலையை எடுத்துரைக்க.

(அல்லது)

(ஆ) "கூழை தாங்கிய எருமை" என்பதனை விளக்குக.

13. (அ) பிறமொழிச் சொற்களைத் தமிழில் ஆளும் முறை பற்றி நீவிர் அறிவது யாது?

(அல்லது)

(ஆ) மொழி முதல் எழுத்துக்கள் குறித்து விளக்குக.

14. (அ) நாடகத் தமிழ் வளர்ச்சியில் பம்மல் சந்பந்த முதலியாரின் பங்களிப்பு யாது?

(அல்லது)

(ஆ) மரபுக் கவிதையில் பாரதிதாசனின் முக்கியத்துவம் யாது?

15. (அ) தொலைக்காட்சி தமிழுக்கு ஆற்றிவரும் பங்களிப்பு யாது?

(அல்லது)

(ஆ) தமிழ் வளர்ச்சியில் இணையத்தின் முக்கியத்துவம் பற்றி விளக்குக.

D–1791

பின்வரும் வினாக்களுக்கு மூன்றனுக்குக் கட்டுரை வடிவில்
விடை தருக.

16. நும் பாடப்பகுதியில் அமைந்துள்ள தேம்பாவணி பாடல்
    கருத்துக்களை தொகுத்துரைக்க.

17. கம்பன் புறத்திணையில் காணப்படும் "புறத்துறை மகளிர்" எனும்
    தலைப்பில் கட்டுரை வரைக.

18. சார்பெழுத்து என்றால் என்ன? அதன் வகைகளை
    எடுத்துக்காட்டுகளுடன் விளக்குக.

19. தமிழ்மொழிக்கு சைவ சமயப் பெரியவர்கள் ஆற்றிய
    தொண்டினை விவரிக்க.

20. பிற்கால காப்பியங்களில் இடம் பெற்றுள்ள "கம்பராமாயணம்"
    பற்றி ஒரு கட்டுரை வரைக.

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3   D–1791

DISTANCE EDUCATION

COMMON FOR B.A./B.Sc./B.B.A./B.B.A. (Banking)/B.C.A./
M.B.A. (5 Year Integrated) DEGREE EXAMINATION,
DECEMBER 2023.

Second Semester

Part I — COMMUNICATION SKILLS – II

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours   Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What is meant by code of communication skills?

2. What do you mean by communication skills?

3. What are the three main elements of effective speaking?

4. Mention any four tips to improve speaking skills.

5. What are the types of listening?

6. What are the five stages of interview?

7. Write any two important elements for paragraph writing.

8. What does an editor do in publishing?

9. What is corporate communication?

10. Write any two tips for writing press release.

SECTION B — (5 × 5 = 25 marks)

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

11. (a) Jot down the whole communication process.

Or

(b) How do stimulus and response play a major role in communication? Explain.

12. (a) Write in detail about pronunciation etiquette in communication skills.

Or

(b) 'Phonetic symbols aid is improving one's communication skills' — Elucidate.

13. (a) Write a paragraph on Stress and Intonation.

Or

(b) Give some self-assessment exercise for improving soft skills.

14. (a) What are the differences between discriminative and comprehensive listening?

Or

(b) Explain in detail about three modes of communication.

15. (a) How do you write a business proposal email?

Or

(b) What is the star method of interviewing? Explain.

D–1792

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. 'Is interference of mother tongue the major barrier for effective communication' – Discuss.

17. Why does phonetics learning become significant for communicative skills? Explain.

18. Write in detail about online presentation tools for presentation skills.

19. Prepare a resume for a new job.

20. You have received a communication for an interview for a job in Wipro. How will you prepare for an interview?

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D–1792

DISTANCE EDUCATION

Common for B.A./B.Sc./B.B.A./B.B.A. (Banking)/B.C.A./
M.B.A. (5 Years. integrated) DEGREE EXAMINATION,
DECEMBER 2023.

Second Semester

Part II — ENGLISH PAPER – II

(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.   To Whom the Sonnets of Shakespeare addressed?

2.   What are the emotions evoked in "Lines Composed upon
     Westminster Bridge"?

3.   To Which pointer does Andrea Del Sarto Compare
     Himself?

4.   Define Soliloquy.

5.   What does "Yellow Wood" stand for?

6.   Where does the solider in strange meeting find himself?

7.   What does the word "Gitanjali" mean?

8. Why did Shylock hate Antonio?

9. What is the theme of the poem <u>Coromandal Fishers</u>?

10. What is note making?

PART B — (5 × 5 = 25 marks)

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

11. (a) Discuss briefly the romantic elements in "Lines composed upon West Minster Bridge".

Or

(b) What is the effect of Browning's dramatic monologue?

12. (a) Bring out the symbolism in the poem "Andrea del Sarto".

Or

(b) "Let us sleep now..." what does the 'sleep' signify in Wilfred Owen's "Strange Meeting"?

13. (a) How does Tagore express material desires and ego as main barriers in the path towards God?

Or

(b) Is Shylock a Villian or victim?

14. (a) Attempt a short note on the morning scene at the seashore with reference to the Poem <u>Coramandel Fishers</u>.

Or

(b) What does Stephen Spender's "The Express" Symbolize? Discuss briefly.

D–1793

15. (a) What is the format of note-making?

    Or

    (b) What are steps to organize an essay?

    PART C — (3 × 10 = 30 marks)

    Answer any THREE questions.

16. Elucidate the subject matter and theme of "Beauty is truth", truth beauty, – that is all ye need to know on earth, and all you need to know".

17. Justify the title "The Road not taken" as a metaphor of life.

18. Elucidate Tagore's use of imagery in "Gitanjali" with appropriate language.

19. Make notes of the following passage :

    Butterflies can be seen fluttering over flowers in the Himalayas, in the Gangetic plain or deep down in the villages in Tamilnadu. These beautiful creatures are useful pollinators. Their wings are formed of pigments of red yellow, black and white, while the blues, the greens and the metallic iridescent hues are the result of refraction. The patterns on butterfly wings are created by a mass of tiny coloured scales which overlap almost like the tiles on a roof. Their antennae are used primarily to find food and mates. They are covered with microscopic sense organs and moved by basal muscles. Through these, they perceive odours, changes in temperature, humidity in the air and certain other stimuli.

3

D–1793

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

    After we got independence, we in India have been trying to raise our standard of living. Though progress has not been as quick as we could have wished, there is no doubt that, in the last twenty-five years, we have been steadily inching our way towards some of our goals, we have almost enough food for our huge population, thanks to the revolution in agriculture. We have built a sound industrial base. We have dethroned hundreds of big and small white elephants – the princes. We have been trying to distribute land more fairly – But with limited success so far. We have also been trying to find employment for our youth – again with only partial success. These and other problems would no doubt become manageable if we could check the steep growth of our population.

    (a) Have living standards in India risen rapidly?

    (b) Who have we been trying to do with only partial success?

    (c) What have we succeeded in doing?

    (d) Have we succeeded in checking the population growth?

    (e) Have we been trying seriously to check it?

    _____

D–1793

DISTANCE EDUCATION

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

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 questions.

1.   Give any four applications of OOPs.

2.   What is inline function?

3.   Write the general form of a class definition.

4.   Define friend function.

5.   What is an abstract class?

6.   List out any two unformatted I/O function.

7.   List some of the file modes.

8.   Write a statement to detect the end-of-file.

9.   Write general format of a function template.

10.   Write the syntax for multiple catch statements.

SECTION B — (5 × 5 = 25 marks)

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

11. (a) Explain the structure of the C++ program.

Or

(b) Explain briefly about function overloading with a suitable example.

12. (a) Write short note on arrays of objects.

Or

(b) What is constructor? Explain copy constructor with example.

13. (a) Explain in detail about virtual base class with example.

Or

(b) Write short note on managing output with manipulators.

14. (a) Explain the concept Command-Line Arguments.

Or

(b) Write a C++ program to read two files simultaneously.

15. (a) How to overload template function in C++? Explain.

Or

(b) How to catch various types of exceptions with single catch block? Explain.

D–1918

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Describe in detail about basic concept of Object Oriented Programming.

17. What are the ways to define a member functions? Explain with example.

18. Explain various types of Inheritance with neat diagram. Write a example program for hierarchical inheritance.

19. Explain the different ways to open a file with suitable example program.

20. Elaborate exception handling mechanism with proper syntax and example program.

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3 **D–1918**

DISTANCE EDUCATION

Common for B.A./B.Sc./B.C.A. DEGREE EXAMINATION,
DECEMBER 2023

Third Semester

Part I : TAMIL Paper – III

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

Time : Three hours   Maximum : 75 marks

பகுதி அ — (10 × 2 = 20 மதிப்பெண்கள்)

அனைத்து வினாக்களுக்கும் விடையளிக்கவும்.

1.   முல்லைப்பாட்டின் ஆசிரியர் யார்?

2.   நாழிகைக் கணக்கரின் பணி யாது?

3.   ஐங்குறு நூற்றில் கபிலர் சுட்டும் மரங்களின் பெயர்களை
     எழுதுக.

4.   நற்றிணைப் பாடல்களைத் தொகுப்பித்த அரசன் யார்?

5.   சோம்பலோடு இருப்பவர்க்கு எவை கிட்டாதெனக் கருவூர்க்
     கோசிகனார் கூறுகிறார்?

6.   ஆனந்தப் பையுள் துறையை விளக்குக.

7.   பாடாண் திணை - குறிப்பு வரைக.

8.   திருக்குறளுக்கு வழங்கப்பெறும் வேறு பெயர்கள் யாவை?

9.   விமலாதித்தன் யார்?

10. புதினம் - விளக்கம் தருக.

பகுதி ஆ — (5 × 5 = 25 மதிப்பெண்கள்)

பின்வரும் வினாக்களுக்கு ஒருபக்க அளவில் விடை தருக.

11. (அ) தலைவனின் பாசறை அமைப்பினை விளக்குக.

(அல்லது)

(ஆ) தலைமகன் தன் நெஞ்சிற்குக் கூறுவதாக அமைந்த பரணர் பாடற் கருத்துக்களை விளக்குக.

12. (அ) அகநானூற்றுப் பாலைநில வருணனையைச் சேந்தம் பூதனார் பாடல் வழி விளக்குக.

(அல்லது)

(ஆ) சோழன் குளமுற்றுத்துத் துஞ்சிய கிள்ளிவளவனின் சிறப்புகளாக மாறோக்கத்து நப்பசலையார் கூறுவனவற்றை எடுத்துரைக்க.

13. (அ) மலையமான் திருமுடிக்காரியின் வள்ளல் தன்மையைச் சுட்டுக.

(அல்லது)

(ஆ) புறநானூறு காட்டும் கையறு நிலைப் பாடலை நும் பாடப்பகுதி கொண்டு விளக்குக.

14. (அ) அறிவுடைமை குறித்துத் திருவள்ளுவர் கூறுவன யாவை?

(அல்லது)

(ஆ) நான்மணிக்கடிகை சுட்டும் வாழ்க்கை நெறிகளை எழுதுக.

15. (அ) இராசராச சோழன் நாடகத்தில் இடம்பெறும் நாடக உத்திகளை விளக்கி வரைக.

(அல்லது)

(ஆ) சுவடுகள் நாவலில் பார்வதியின் பாத்திரப் படைப்பை ஆராய்க.

2

D–1794

பின்வரும் வினாக்களில் <u>மூன்றனுக்குக்</u> கட்டுரை வடிவில் விடை தருக.

16. முல்லைப்பாட்டு வெளிப்படுத்தும் தலைவியின் கற்புநிலை மேன்மையைக் கட்டுரையாக்கம் செய்க.

17. நற்றிணை வெளிப்படுத்தும் இயற்கை வருணனைகளைத் தொகுத்துரைக்க.

18. திருக்குறள் வெளிப்படுத்தும் அறக்கோட்பாடுகளை நும் பாடப்பகுதி கொண்டு விளக்கி வரைக.

19. இராசராசசோழன் நாடகத்தின் கதைக் கோப்புச் சிறப்பைக் கட்டுரை வடிவில் எழுதுக.

20. சுவடுகள் நாவலில் பாத்திரப்படைப்பு உருவாக்கத்தினை ஆராய்ந்து கட்டுரை எழுதுக.

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3   **D–1794**

DISTANCE EDUCATION

COMMON FOR B.A./B.Sc./B.C.A. DEGREE EXAMINATION,
DECEMBER 2023.

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 questions.

1.   Define Interpersonal Relationship.

2.   Define Attitude.

3.   What is meant by 'Counselling'?

4.   What is Dais Etiquette?

5.   Write briefly on self esteem.

6.   Give the meaning of 'Leadership'.

7.   What is called as positive attitude?

8.   Write briefly on goal setting.

9.   Give the meaning of 'Anger'.

10. What is 'Stress'?

PART B — (5 × 5 = 25 marks)

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

11. (a) Write a note on Interpersonal Behaviour.

Or

(b) Write on the significance of thinking ahead.

12. (a) Discuss the effects of 'Conflicts'.

Or

(b) Comment on the different terms of 'Counselling'.

13. (a) Bring out the etiquettes in using mobile phones.

Or

(b) Write a short note on the types of Habits.

14. (a) Discuss the advantages of Negotiations.

Or

(b) Discuss the importance of Goal Setting.

15. (a) Discuss the canons of good human relations.

Or

(b) Write a note on 'dealing with change'.

D–1795

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Discuss in details the merits of good habits.

17. Explain the characteristics and importance of 'Change'.

18. Discuss the significance of Self-esteem.

19. Explain the factors that influence personality.

20. Write elaborately on the Management of conflicts.

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D–1795

DISTANCE EDUCATION

COMMON FOR B.A./B.Sc./B.C.A. DEGREE EXAMINATION, DECEMBER 2023.

Third Semester

PART II — ENGLISH — PAPER III

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

Time : Three hours   Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Who is Ratan? [in 'The Postmaster']

2. Where is the story, 'The Postmaster' set?

3. How did Verger lose his job?

4. Why is Mathilde envious of Madame Forestier?

5. What is the setting of the play, 'The Proposal'?

6. Why does Philip refuse to join the jam business in Uncle James' dream?

7. Why was Pierre pinched? How did he defend himself before judge Gaston?

8. Why could Swami not keep a light burning?

9. Fill in the blanks with the Abstract Nouns formed from the words given in brackets.

   (a) We all love ———————— (honest)

   (b) The element has great ———————— (strong)

10. What is an Adjective?

SECTION B — (5 × 5 = 25 marks)

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

11. (a) How does Guy de Maupassant treat the danger of martyrdom in 'The Diamond Necklace'?

Or

   (b) What was Albert Foreman's reply to the questions of the bank manager? What does his answer reflect?

12. (a) How do Lomov and Natalya argue over the ownership of Oxen Meadows?

Or

   (b) How does the play, 'The Boy Comes Home' analyse the problems of the generation gap?

13. (a) Why do the vagabonds go back to the bakery after eating the pie in 'The Pie and the Tart'?

Or

   (b) Describe the rapport between Ratan and the Postmaster.

14. (a) How has Swami become a hero?

Or

   (b) Analyse the play, 'The Silver Idol'.

2   **D–1796**

15. (a) Pick out the Adjectives in the following sentences and state their kind :

   (i) I know a funny little man.

   (ii) He is a man of few words.

   (iii) I have told you this many times before.

   (iv) How many marks did you got?

   (v) An empty vessel makes much noise.

   Or

(b) Choose the right verbs from brackets to complete each sentence :

   (i) The thieves (robbed, stole, won) all property from the house.

   (ii) Columbs (discovered, invented, explored) America.

   (iii) The moon (raised, rose, awoke) early.

   (iv) Cocks (sing, caw, crow) in the morning.

   (v) They (hanged, hung, swung) the pictured on the wall.

   SECTION C — (3 × 10 = 30 marks)

   Answer any THREE questions.

16. Describe how Albert Foreman prospered in his business as a tobacconist and newsagent.

17. What are the similarities and differences between Jean and Pierre? Explain.

3   **D–1796**

18. Sketch the character of Lomov in 'The Proposal'.

19. Describe the place where you have gone recently on picnic.

20. Fill in the blanks with Adverbs chosen from the list given :

Angrily, badly, brutally, silently, seldom, patiently, loudly, soon, tunefully, noisily

(a) The child has been ————— treated.

(b) The choir sang —————.

(c) The burglar crept —————.

(d) The minister listened ————— to the complaints of the villagers.

(e) The children played ————— in the house.

(f) She ————— comes here now,

(g) I hope you will ————— be well.

(h) I was ready when John called ————— for me to come.

(i) He did ————— in the examination.

(j) The bull charged —————.

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DISTANCE EDUCATION

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

Third Semester

RELATIONAL DATABASE MANAGEMENT SYSTEM
(RDBMS)

(CBCS 2018-19 Academic Year Onwards)

Time : Three hours   Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1.   List the types of data model used.

2.   What are the responsibilities of a DBA?,

3.   What SQL construct enables the definition of a relation?

4.   Define selection operation.

5.   Write the impact of null values on SQL constructs.

6.   What is a minimal cover for a set of FDs?

7.   Define atomicity and consistency.

8.   What does the transaction manager do?

9. Define buckets in hash based indexing.

10. Why are tree-structured indexes good for searches?

PART B — (5 × 5 = 25 marks)

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

11. (a) Give a note on views of data.

Or

(b) Write short note on storage manager.

12. (a) What is relational database query? Give example.

Or

(b) Explain how the renaming operator is used.

13. (a) Describe aggregate operators with examples.

Or

(b) Illustrate lossless join decomposition.

14. (a) Write a note on transaction state.

Or

(b) Brief on recovery with concurrent transactions.

15. (a) Describe primary and secondary indexes.

Or

(b) Give a brief on sorted files.

D–1919

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain conceptual design with the ER model.

17. Discuss on integrity constraints over relations.

18. What is normalization? Explain its types.

19. Write a detailed note on serializability.

20. Explain about B+ tree.

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DISTANCE EDUCATION

Common for B.A./B.Sc./B.C.A. DEGREE EXAMINATION,
DECEMBER 2023.

Fourth Semester

Part I –TAMIL PAPER – IV

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

Time : Three hours　　　　　　　Maximum : 75 marks

பகுதி அ — (10 × 2 = 20 மதிப்பெண்கள்)

அனைத்து வினாக்களுக்கும் விடையளிக்கவும்.

1. வெண்பாவில் பயின்று வரும் தளைகள் யாவை?

2. கண்ணி வகைப் பாடல்கள் எவ்வாறு அமைந்திருக்கும்?

3. அறத்தொடு நிற்றல் என்றால் என்ன?

4. அன்பின் ஐந்திணைகளைக் குறிப்பிடுக.

5. அணி இலக்கணம் பேசும் நூலினைக் குறிப்பிடுக.

6. சிலேடை அணி எத்தனை வகைப்படும்? அவை யாவை?

7. தொல்காப்பியத்திற்குப் பாயிரம் எழுதியவர் யார்?

8. பத்துப்பாட்டு நூல்களைக் குறிப்பிடுக.

9. பாண்டியன் பரிசு நூலின் கதைத் தலைவி யார்?

10. இயேசு காவியம் எத்தனை பாகங்களைக் கொண்டது?

பகுதி ஆ — (5 × 5 = 25 மதிப்பெண்கள்)

பின்வரும் வினாக்களுக்கு ஒரு பக்க அளவில் விடை தருக.

11. (அ) ஆசிரியப்பாவின் பொது இலக்கணம் கூறி அதன் வகைகளைச் சுட்டுக.

(அல்லது)

(ஆ) சிந்துப் பாடலின் இலக்கணம் கூறி அதன் வகைகளை விளக்குக.

12. (அ) ஐந்திணைகளின் கருப்பொருள் குறித்து எழுதுக.

(அல்லது)

(ஆ) அறத்தொடு நிற்றல் நிலையில் தோழியின் பங்கு பற்றி எழுதுக.

13. (அ) உருவக அணியினைச் சான்றுடன் விளக்குக.

(அல்லது)

(ஆ) நிறுத்தற் குறியினைப் பயன்படுத்தும் முறைகள் பற்றி எழுதுக.

14. (அ) வீரயுகப் பாடல்கள் குறித்து எழுதுக.

(அல்லது)

(ஆ) குறுந்தொகைப் பாடல்களின் காதற்சிறப்பினை விளக்குக.

15. (அ) பாஞ்சாலி சபதத்தின் தனித்தன்மையை விளக்குக.

(அல்லது)

(ஆ) பாண்டியன் பரிசு காவியத்தில் வரும் சமூகச் சிந்தனைகளை நிரல்படுத்துக.

D–1797

பகுதி இ — (3 × 10 = 30 மதிப்பெண்கள்)

பின்வரும் வினாக்களில் மூன்றனுக்குக் கட்டுரை வடிவில் விடை தருக.

16. கலிப்பாவின் பொது இலக்கணம் கூறி வகைகளை விரிவாக
     எழுதுக.

17. புதுக்கவிதையின் வளர்ச்சிக்குக் குறியீடு எவ்வாறு துணை
     நிற்கிறது?

18. புறப்பொருள் துறைகளில் கையறுநிலை பெறும் இடத்தினை
     ஆராய்க.

19. இரட்டைக் காப்பியங்களில் காணலாகும் அறச்சிந்தனைகளை
     நிரல்படுத்துக.

20. இயேசு காவியத்தின் வழி இறைவனின் அருட்செயலை
     விளக்குக.

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D–1797

DISTANCE EDUCATION

COMMON FOR B.A./B.Sc./B.C.A. DEGREE EXAMINATION, DECEMBER 2023.

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 questions.

1. What is called communication?

2. What is the goal of a presentation?

3. Will the thinking skill support one to achieve one's target?

4. Write any two styles that have been followed by leaders.

5. What are Hard Skills?

6. Write any two forms of Technical Communication.

7. Write any one features of group discussion.

8. Define Motivation.

9. Give any two characteristics that are attributed to a good leader.

10. Suggest anyone way to arrest stress.

SECTION B — (5 × 5 = 25 marks)

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

11. (a) Describe effective communication.

Or

(b) How do you plan for good presentation of a speech?

12. (a) Write a note on Paternalistic style of leadership.

Or

(b) Discuss the need for leadership skill.

13. (a) Give the necessity for having Conceptual Skills.

Or

(b) Discuss the need for Managerial Skills.

14. (a) Discuss some of the procedures to apply Technical Skills.

Or

(b) Bring out some of the causes for Multi-tasking.

15. (a) Give some time management tips to increase the productivity.

Or

(b) Discuss some types of stress normally we meet.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the techniques of counselling.

17. What are the eight easy steps for an effective speech?

D–1798

18. Does personality development skill play an important role in bringing out one's career achievement?

19. Explain in detail the requirements of understanding skills at societal level.

20. Explain the importance of Organisation Skills.

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DISTANCE EDUCATION

COMMON FOR B.A./B.Sc./B.C.A. DEGREE EXAMINATION,
DECEMBER 2023.

Fourth Semester

PART II — ENGLISH – PAPER IV

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

Time : Three hours   Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Who is the author of 'Boy who wanted more Cheese'?

2. Who was Lalajee?

3. Write the confusion with which the boy was worrying in 'A Day's Wait'.

4. What have Pickering and Higgins written respectively?

5. Why did Swamy run away from home?

6. After his father threatens to disinherit him if he marries Perdita, what did Florizel do?

7. How does Shylock initially describe his demand for a pound of flesh to Bassanio and Antonio?

8. Why is Romeo exiled?

9. Add Tag Questions :

   (a) None of us knew the answer, ————

   (b) Use your eyes, ————.

10. Correct the following sentences :

    (a) There is atleast fifty persons waiting outside.

    (b) Either my sister or my brothers is coming.

         SECTION B — (5 × 5 = 25 marks)

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

11. (a) Analyse the story 'A Day's Wait'.

                        Or

    (b) Write a short summary of 'Boy who wanted more Cheese'.

12. (a) Write the advice given by Jim Corbett to Lalajee after Lalajee has recovered.

                        Or

    (b) How did the father clear the confusion of his son in 'A Day's Wait'?

13. (a) It has been said that *Pygmalion* is not a play about turning a flower girl into a duchess, but one about turning a woman into a human being. Do you agree?

                        Or

    (b) How does the structure of the narrative inform the sense of time in Swami's world in *Swamy and Friends*?

                2   **D–1799**

14. (a) Discuss Shylock's dramatic function in *The Merchant of Venice*.

Or

(b) Discuss the resurrection scene in *The Winter's Tale*. Is the apparent miracle real?

15. (a) Discuss the impact caused by Martin Luther King's assassination.

Or

(b) Expand the proverb – 'All that glitters is not Gold'.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. What is the message conveyed through the story, 'Little Girls wiser than Man'?

17. Describe the primary ways in which Eliza Doolittle changes in the course of the play, *Pygmalion*.

18. How does Shakespeare treat death in *Romeo and Juliet*?

19. Discuss Portia's character. How is she compared to the men around her? Is Bassanio a worthy husband too her?

20. Give the details on the Do's and Don'ts of Group Discussion.

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D–1799

DISTANCE EDUCATION

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

Fourth Semester

INTERNET AND JAVA PROGRAMMING

(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 internet.

2.   What is domain name system?

3.   Give the importance of class.

4.   What is variable?

5.   What is inheritance?

6.   Mention the use of array.

7.   Write the purpose of exception handling.

8.   Write a short note on applet tag.

9. What do you meant by byte stream classes?

10. Why I/O classes uses stream?

PART B — (5 × 5 = 25 marks)

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

11. (a) Explain the basic Internet concepts with the help of appropriate examples.

Or

(b) Describe the importance of web browsers.

12. (a) Briefly explain the features of java.

Or

(b) Explain with suitable examples for increment and decrement operators.

13. (a) Illustrate and explain the method overloading.

Or

(b) How does an interface defined? Explain with example.

14. (a) Illustrate and explain creating threads using thread class.

Or

(b) How to passing parameters in applets? Explain with example.

15. (a) Describe the concept of predefined streams.

Or

(b) Elaborate the various types of stream variables.

2 **D–1920**

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Why chatting and conferencing is becoming popular on the Internet? Discuss about the various software that support it.

17. Explain the basic concepts of object oriented programming.

18. Discuss the methods of placing the classes in a package.

19. Demonstrate the steps to create and running the threads with examples.

20. Discuss the concept of reading from and writing to console in java language.

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DISTANCE EDUCATION

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

Fifth Semester

ACCOUNTING FUNDAMENTALS

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours　　　　　　　　　Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. Write a short note on the field of accounting.

2. What is a suspense account?

3. Write a short note on the Money Measurement Concept.

4. Define Nominal accounts.

5. Write a short note on special journals.

6. What are Bad Debts?

7. What are the different types of errors?

8. What is the meaning of purchase book?

9. Write a short note on Window dressing.

10. Define stock turnover Ratio.

PART B — (5 × 5 = 25 marks)

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

11. (a) Difference between Book-keeping and accounting.

Or

   (b) What are accounting ratios? State their importance.

12. (a) What are the different types of errors which can happen in journalising?

Or

   (b) Discuss the limitations of ratio analysis.

13. (a) Record the following transactions in the Cash Book and post them in the ledger :

   Jan. 01   Opening cash balance Rs. 5,000

   Jan. 04   Rent paid Rs. 2,000

   Jan. 06   Interest received Rs. 3,000

   Jan. 15   Cash purchase Rs. 4,000

   Jan. 25   Cash sales Rs. 8,000

   Jan. 31   Salaries paid Rs. 2,000.

Or

   (b) Mention three important sources of cash.

14. (a) How do accounting policies affect ratio analysis?

Or

   (b) Explain the scope of accounting.

2

15. (a) What are the disadvantages of single entry system?

Or

(b) Prepare the Trading Account of Mr. Kumar for the year ending 31st December, 2019 from the data as follows :

	Rs.		Rs.
Purchases	10,000	Wages	4,000
Purchase Returns	2,000	Carriage charges	2,000
Stock on 1.1.2019	4,000	Sales	20,000
Sales returns	5,000	Stock on 31.12.2019	6,000

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the various uses of Accounting Information.

17. Discuss the meaning, objectives, scope and assumptions of IFRS.

18. Pass the Opening Entry on January 1, 2016 on the basis of the following information taken from the business of Mr. Suresh :

(a) Cash in Hand Rs. 2,000

(b) Sundry debtors Rs. 6,000

(c) Stock of Goods Rs. 4,000

(d) Plant Rs. 5,000

(e) Land and Building Rs. 10,000

(f) Sundry creditors Rs. 10,000.

19. Illustrate the different forms of Marshalling.

3 **D–1921**

20. Journalize the following transactions, post them in the Ledger and balance the accounts on 31st January :

    (a) Ram started business with a capital of Rs. 10,000

    (b) He purchased goods from Mohan on credit Rs. 2,000

    (c) He paid cash to Mohan Rs. 1,000

    (d) He sold goods to Suresh Rs. 2,000

    (e) He received cash from Suresh Rs. 3,000

    (f) He further purchased goods from Mohan Rs. 2,000

    (g) He paid cash to Mohan Rs. 1,000

    (h) He further sold goods to Suresh Rs. 2,000

    (i) He received cash from Suresh Rs. 1,000.

    _____

D–1921

DISTANCE EDUCATION

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

Fifth Semester

COMPUTER GRAPHICS

(CBCS 2018-19 Academic Year Onwards)

Time : Three hours   Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. What are the Elements in Computer Graphics?

2. What are various filling techniques?

3. Name any two ways to make a drawing visible.

4. What are the three types of Shading?

5. Define Quadratic surface with example.

6. What is Metaballs model?

7. What is the use of 3d Viewing device?

8. What is 3d effect?

9. Give an example of Animation language.

10. What is key frame in animation and how will you insert it?

PART B — (5 × 5 = 25 marks)

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

11. (a) Explain in brief about Mid-point algorithm with neat diagram.

Or

(b) What is Boundary fill algorithm? Discuss.

12. (a) Give a note on two-dimensional viewing transformation with its structure.

Or

(b) Explain in brief about the effect of zooming in computer graphics.

13. (a) Differentiate between B-Spline and Bezier Curve.

Or

(b) Write short notes on Polygon meshes with its pros and cons.

14. (a) Describe in brief about Bitmap graphics.

Or

(b) Write down the advantages of Clipping in 3D.

15. (a) How Binary space is partitioned? Discuss.

Or

(b) What is motion graphics? Explain in brief about its purpose.

2 **D–1922**

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Give a detailed explanation of any four display devices in computer graphics with its pros and cons

17. Explain in detail about Cohen Sutherland line Clipping algorithm.

18. What are the different types of curves? Describe in detail about any one with its properties.

19. Write down the steps involved in 3d viewing pipelines with neat diagram.

20. Discuss the following, (a) Scan-line method, (b) Depth Sorting method.

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DISTANCE EDUCATION

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

Fifth Semester

OPERATING SYSTEMS

(CBCS 2018-19 Academic Year Onwards)

Time : Three hours   Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. What is System call?

2. What is called a virtual machine?

3. What is pipelining in Multiprocessor?

4. Define lightweight process.

5. What is producer consumer problem?

6. How will you avoid Deadlock?

7. What are the benefits of swapping?

8. Mention the importance of Contiguous memory allocation.

9. Define Meta data.

10. What is magnetic disk?

PART B — (5 × 5 = 25 marks)

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

11. (a) List out the services provided by operating system for the convenience of users.

Or

(b) Explain the advantages and disadvantages of virtual Machine.

12. (a) Write a brief note on Multithreading models.

Or

(b) What are the characteristics of Multiprocessor?

13. (a) Write short notes on Critical Section problem.

Or

(b) How do you solve Synchronization problem? Explain.

14. (a) Discuss in brief about partition allocation.

Or

(b) Explain with a neat structure about the purpose of Segmentation.

15. (a) Discuss in brief about space allocation in a file.

Or

(b) Mention the benefits of DAS.

D–1923

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Give a detailed explanation about Operating System Architecture.

17. Discuss in detail about various process scheduling algorithms.

18. Explain in detail about Semaphore with its advantages and disadvantages.

19. Describe in detail about Paging with its advantages and disadvantages.

20. Elaborate in detail about disk scheduling algorithms with a neat structure.

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DISTANCE EDUCATION

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

Sixth Semester

MANAGEMENT PRINCIPLES AND TECHNIQUES

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours   Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

1. List the functions of management.

2. What do you mean by staffing?

3. Define slack variable.

4. How many basic variables will be there for a balanced transportation problem with rows and 3 columns?

5. What are the three main phases of network project?

6. Expand PERT.

7. What is meant by individual replacement?

8. Why do we replace machines?

9. Define discount factor.

10. What are the types of failures?

PART B — (5 × 5 = 25 marks)

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

11. (a) Discuss the importance of controlling.

Or

(b) Explain the process of communication.

12. (a) Graphically :
Maximize $z = 6x_1 + 9x_2$

Subject to the constraints
$x_1 + x_2 \leq 12$
$x_1 + 5x_2 \leq 45$
$3x_1 + x_2 \leq 30$
$x_1, x_2 \geq 0.$

Or

(b) Determine basic feasible solution to the following transportation problem using North West Corner Rule:

	A	B	C	D	E	
P	2	11	10	3	7	4
Q	1	4	7	2	1	8
R	3	9	4	8	12	9
	3	3	4	5	6	

13. (a) Construct the network for the project whose activities and their relationships are as given below :

Activities : A, D, E, can start simultaneously
Activities : B, C > A ; G, F > D, C; H > E, F.

Or

(b) Explain various time estimates in PERT.

D–1924

14. (a) A machine costs Rs. 12,200. The scrap value is Rs. 200. The maintenance cost of the machine are given below :

Year :   1   2   3   4   5   6   7   8

Maintenance cost : 200 500 800 1200 1800 2500 3200 4000

Or

(b) The cost of a new machine is Rs. 5,000. The maintenance cost of nth year is given by $C_n = 500(n-1)$; $n = 1, 2,.....$ Suppose that the discount rate per year is 0.5. After how many year it will be economical to replace the machine be a new one?

15. (a) Distinguish between individual replacement and group replacement.

Or

(b) The probability p_n of failure just before age n are show below. If individual replacement costs Rs. 11.50 and group replacement costs Rs. 2.00 per items, find the optimal replacement policy.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Discuss the steps in planning process.

17. Solve the transportation problem :

Destination

		D1	D2	D3	D4	Demand
	S1	6	1	9	3	70
Source	S2	11	5	2	8	55
	S3	10	12	4	7	70
Supply		85	35	50	45	

3   **D–1924**

18. Calculate the total float, free float and independent float for the project whose activities are given below :

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
(in weeks)

19. A taxi owner estimates from his past records that the costs per year for operating a taxi whose purchase price when new is Rs. 60,000 are as given below :

Age : 1 2 3 4 5

Operating : 10,000 12,000 15,000 18,000 20,000
Cost (Rs.)

After 5 years, the operating costs is Rs. 6,000 k, where $k = 6, 7, 8, 9, 10$ (k denoting age in year). If the resale value decreases by 10% of purchase price each year, what is the best replacement policy? Cost of the money is zero?

20. Explain how the theory of replacement is used in replacement of items whose maintenance cost varies with time.

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4 **D–1924**

DISTANCE EDUCATION

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

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.　What are the elements of a system?

2.　What are called Interpersonal skills?

3.　What is case scenario?

4.　Write down the method of cost benefit analysis.

5.　What are the elements of Logical design?

6.　Mention the various types of forms.

7.　What are the benefits of sequential files?

8.　Write about HIPO.

9.　How parallel conversion is carried out?

10.　Mention the Evaluation process.

PART B — (5 × 5 = 25 marks)

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

11. (a) Outline the activities of TPS and OAS.

Or

(b) Discuss the role of System Analyst.

12. (a) How to determine user's Information requirement? Explain.

Or

(b) Explain the steps in Feasibility analysis.

13. (a) Explain the various stages of system design.

Or

(b) Write short notes on Forms control.

14. (a) Explain the architecture of Relational Database.

Or

(b) Write about special system tests.

15. (a) Explain pilot and phase in conversion.

Or

(b) Discuss the procedure for hardware and software selection.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Describe the various types of systems.

17. Explain Fact finding techniques.

　　　　　　　D–1925

18. Explain the following:

    (a) Input Design of online system

    (b) Output Design

19. Explain the Top-down approach of system development.

20. Explain the activities of system maintenance.

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DISTANCE EDUCATION

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

Sixth Semester

VISUAL BASIC PROGRAMMING

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours   Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions

1. What do you mean by event? List any two events used in VB.

2. List any two types of projects you can create in VB.

3. What is meant by user interface for your application?

4. List the data types supported by VB.

5. When you need to use array of controls? Give an example.

6. Write any two numeric functions in VB.

7. What is meant by recurive function?

8. How do you move from one form to another form? Write the code that displays the form.

9. Write steps to add main menu items to your application.

10. Expand the terms DAO and ADO.

PART B — (5 × 5 = 25 marks)

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

11. (a) Explain the scope of variables in a VB project.

Or

(b) Brief on the debugging features of VB.

12. (a) Write any five properties of text box and explain their purpose.

Or

(b) Write code to display an image file selected from a file list box on a image box control.

13. (a) Explain any five date and time functions in VB.

Or

(b) Explain Click and mouse events with example code.

14. (a) How do you create MDI form and child forms. Illustrate with code?

Or

(b) Explain graphics function to draw objects on user interface.

15. (a) Write short notes on the term OLE DB and its uses.

Or

(b) Explain different types of recordsets that can be accessed from a database file.

D–1926

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. With code, explain the use of label, option box, text box and command button controls.

17. With syntax and illustrations, explain the use of for and do loops in VB.

18. Write code to create File menu for your project with open, save, close and exit options with separator bar above exit option.

19. Explain the connection string to connect to Access database and navigate records displayed on a form with necessary controls.

20. Write code for degree admission application form display, accept data from user for any number of students and store them in a database. Stop the process on selecting Exit button.

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