

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-6700

Sub. Code

13013

DISTANCE EDUCATION

B.Sc. (CS) DEGREE EXAMINATION.

MAY 2021 EXAMINATION

&

MAY 2020 ARREAR EXAMINATION

First Semester

Computer Science

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 'Token'
2. What are Reserved Words?
3. List the Input and Output Library functions.
4. What are the Logical Operator Provided by 'C'?
5. Define Formal Arguments.
6. How a Structure is declared in 'C' Language?
7. Write the syntax for declaring the pointer function.

8. Define the term Call by Reference.
9. What is a File Pointer?
10. What is the purpose of using rewind () Function?

PART B — (5 × 5 = 25 marks)

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

11. (a) Bring out the Structure of a C - Program with neat Sketch.

Or

- (b) Write Short notes on Unary Operator and Binary Operator.
12. (a) Write a Program to check whether a String is Palindrome using gets() and Puts () function.

Or

- (b) Discuss about Multi dimensional Arrays.
13. (a) Write short notes on Formal and Actual Parameters with suitable examples.

Or

- (b) What is Union? How it is declared and processed?
14. (a) Write short notes on Pointer Properties.

Or

- (b) Describe the malloc () and calloc () with the suitable examples.

15. (a) Differentiate between Text Mode and Binary Mode.

Or

(b) Describe about the concept of command line arguments.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain in detail Operators mc with suitable examples.
17. Illustrate the use of “switch” statement with suitable examples.
18. Write the rules to declare a structure and accessing the structure with proper example.
19. Explain about functions and their types.
20. Write a program that reads one character at a time till EOF is reached.

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?”
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D-6701

Sub. Code

13023

DISTANCE EDUCATION

B.Sc.(CS) DEGREE EXAMINATION.

MAY 2021 EXAMINATION

&

MAY 2020 ARREAR EXAMINATION

Second Semester

Computer Science

OBJECT ORIENTED PROGRAMMING AND C++

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. What is data encapsulation?
2. Define Manipulators.
3. How to make outside function in inline?
4. Define constructor overloading
5. List the rules for operator overloading.
6. What is Multiple Inheritance?
7. Write the syntax for opening a file.

8. What is random access file?
9. Define Exception.
10. Give the syntax of throw statement.

PART B — (5 × 5 = 25 marks)

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

11. (a) Explain the following OOPs concepts
 - (i) Objects
 - (ii) Polymorphism
 - (iii) Data abstraction

Or

(b) Distinguish between the procedure oriented and object oriented programmings.
12. (a) Illustrate the use of 'friend function' with example.

Or

(b) Differentiate call by value from call by reference.
13. (a) Write a program to find area of different shapes using function overloading.

Or

(b) List the rules for virtual function.
14. (a) Write a program to swap two numbers using function template.

Or

(b) Explain about the file pointers with example.

15. (a) Explain about catching mechanism.

Or

(b) How to handle uncaught exception?

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the formatted and unformatted I/O operations.

17. Discuss the concept of constructor and destructor with suitable example.

18. Explain inheritance and its types with example.

19. Write a program for class template with multiple arguments.

20. Explain about exceptions in operator overloaded functions.

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 used 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.

D-6702

Sub. Code

13033/13233

DISTANCE EDUCATION

B.Sc.(CS)/B.Sc.(Computer Science) (Lateral Entry) DEGREE
EXAMINATION.

MAY 2021 EXAMINATION

&

MAY 2020 ARREAR EXAMINATION

Third Semester

Computer Science

DATA STRUCTURES AND ALGORITHMS

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Define Data Structure?
2. What do you mean by array?
3. List the application of stack.
4. Write the prefix and postfix expression of
 $(A + B) * C - (D - E) * (F + G)$
5. List out the different types of binary tree.

6. Define hasing Technique.
7. Analyze the key characteristics of binary search.
8. Define Searching.
9. What is the time complexity and space complexity of quick sort?
10. Illustrate whether bubble sort performs better than quick sort.

PART B — (5 × 5 = 25 marks)

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

11. (a) Write a short note on Time and Space complexity of the algorithms.

Or

- (b) Explain two dimensional arrays with examples.

12. (a) Discuss the operations Queue with algorithms and examples.

Or

- (b) Write short note on circular linked list with examples

13. (a) Write short note on Binary Search Tree with example.

Or

- (b) How to perform insert operation in binary tree? Explain with an examples.

14. (a) Identify the differences between linear search algorithm and binary search algorithm Explain it with an example.

Or

- (b) Explain binary search algorithm with example.
15. (a) Write short note on bubble sort with algorithm.

Or

- (b) Trace the steps of insertion sort for the values 12, 19, 33, 26, 29, 35, 22. Construct the total number of comparisons made during sorting.

PART C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. List the various classifications of data structures and explain various operations performed on data structures with examples.
17. Explain singly linked list and the various operations performed on it with algorithm and examples.
18. Explain binary tree traversal with algorithms and examples.
19. Discuss the linear search in detail with an example.
20. Explain quick sort algorithm with suitable example.

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?
-

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?
-

D-7233

Sub. Code

13043/13243

DISTANCE EDUCATION

B.Sc.(CS)/B.Sc.(CS) (Lateral Entry) DEGREE EXAMINATION.

MAY 2021 EXAMINATION

&

MAY 2020 ARREAR EXAMINATION

Fourth Semester

Computer Science

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. Define Java.
2. What is meant by token?
3. What is meaning of ===
4. Define operator precedence.
5. What is the use of operator?
6. Define the term dynamic array.
7. Define the term interface.

8. What is the use of multithreading.
9. What is the difference between final and finally.
10. What is the use of drawArc() method?

SECTION B — (5 × 5 = 25 marks)

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

11. (a) Explain the three principles of java.

Or

- (b) Explain the steps involved in implementation of a java program.

12. (a) What is type casting? Give an example to explain it.

Or

- (b) List the different operators in java.

13. (a) Write the difference between break and continue statements in java.

Or

- (b) Explain the concept of constructors.

14. (a) Explain the major difference between an interface and a class?

Or

- (b) Explain the over riding methods in java.

15. (a) How get Parameter () method is used in applet?

Or

- (b) Explain life cycle of an applet.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain in detail about the features of java.
 17. Explain about switch statement with example in java.
 18. Explain how to use a particular package in a java program. Give example.
 19. What is exception? Give different type of exception that could occur during runtime. Why to handle exception?
 20. Explain tag of applet with suitable example.
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D-7234

Sub. Code

13051/13251

DISTANCE EDUCATION

B.Sc.(CS)/B.Sc.(CS) (Lateral Entry) DEGREE EXAMINATION.

MAY 2021 EXAMINATION

&

MAY 2020 ARREAR EXAMINATION

Fifth Semester

Computer Science

OPERATING SYSTEMS

(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 scalable operating systems.
2. Define interrupt.
3. What is mutual exclusion?
4. Define concurrent programming.
5. What is indefinite postponement?
6. What is long term scheduling?
7. What is the role of virtual memory?
8. Define page fault.

9. What is throughput?

10. Define elevator algorithm.

SECTION B — (5 × 5 = 25 marks)

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

11. (a) Explain core operating system components.

Or

(b) Narrate process state transition.

12. (a) Write a short note on monitors.

Or

(b) Explain semaphore.

13. (a) Narrate the necessary conditions for deadlock.

Or

(b) Briefly explain the deadlock solution.

14. (a) Explain the hierarchical memory organization.

Or

(b) Narrate memory management strategies.

15. (a) With suitable example explain the SSTF disk scheduling.

Or

(b) Write a short note on rotational optimization.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Describe the operating system architecture.
 17. Describe the hardware solution to mutual exclusion problem.
 18. Briefly explain the different types of scheduling algorithms.
 19. Discuss the page replacement strategies.
 20. Describe the file allocation methods.
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D-7235

Sub. Code

13052/13252

DISTANCE EDUCATION

B.Sc. (Computer Science)/B.Sc.(CS) (Lateral Entry) DEGREE
EXAMINATION

MAY 2021 EXAMINATION

&

MAY 2020 ARREAR EXAMINATION

Fifth Semester

Computer Science

RELATIONAL DATABASE MANAGEMENT SYSTEMS
(RDBMS)

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. What are instance and schema?
2. State the different database languages.
3. Why do we have to enforce integrity constraints?
4. Write about any one operations in relational algebra.
5. What is the importance of Null value database?
6. Define FD.
7. What is ACID properties?

8. What is multiple granularity?
9. What are primary indexes?
10. What is indexed data structures?

SECTION B — (5 × 5 = 25 marks)

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

11. (a) Explain ER model.

Or

- (b) Explain the terms (i) Storage manager (ii) Query processor.

12. (a) Write a note on logical data base design.

Or

- (b) Write the differences between relational algebra and relational calculus.

13. (a) What is active database schema refinement?

Or

- (b) Write about the concept of decomposition.

14. (a) Explain the implementation of isolation and testing of serializability.

Or

- (b) Describe timestamp based protocols.

15. (a) Explain tree based indexing.

Or

- (b) What is a dynamic indexed structured. Explain in detail.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain database architecture with diagram.
 17. Create a table for inventory and perform updation and selection process.
 18. Explain BCNF and fourth normal form.
 19. What are the concepts behind recovery and atomicity? Explain.
 20. Explain about the various types of file organization with diagram.
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D-7236

Sub. Code

13053/13253

DISTANCE EDUCATION

B.Sc. (CS)/B.Sc. (CS) (Lateral Entry) DEGREE
EXAMINATION

MAY 2021 EXAMINATION

&

MAY 2020 ARREAR EXAMINATION

Fifth Semester

Computer Science

COMPUTER ARCHITECTURE

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. Define execution cycle.
2. What is memory addressing?
3. Define hazard.
4. What are the advantages of dynamic scheduling?
5. What is loop unrolling?
6. Define current frame pointer.
7. What are the two levels of cache system?

8. Define pipeline.
9. Define cache coherence protocol.
10. Write two main approaches of multithreading.

SECTION B — (5 × 5 = 25 marks)

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

11. (a) Write short note on classifying instruction set architecture.

Or

- (b) Explain types and size of operands.
12. (a) Explain in detail about Tomasulo's algorithm.

Or

- (b) Write short notes on data dependences.
13. (a) Explain static branch prediction.

Or

- (b) Write software vs hardware speculations mechanism.
14. (a) Explain in detail about first miss rate reduction technique.

Or

- (b) Short note about throughput vs response time.
15. (a) Write short note on basic hardware primitives.

Or

- (b) Explain in detail about relaxed consistency model.

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

Answer any THREE questions.

16. Write brief note on CPU performance equation.
 17. Explain in detail about limitations of ILP.
 18. Give brief note on Intel IA-64 instruction set architecture.
 19. Explain in detail about memory technology.
 20. Write brief note on distributed shared memory architecture.
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D-7237

Sub. Code

13061/13261

DISTANCE EDUCATION

B.Sc.(CS)/B.Sc.(CS) (Lateral Entry) DEGREE EXAMINATION

MAY 2021 EXAMINATION

&

MAY 2020 ARREAR EXAMINATION

Sixth Semester

Computer Science

COMPUTER NETWORK

(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 three necessary criteria for an effective and efficient network?
2. What are the advantages of distributed processing?
3. What are the responsibilities of data link layer?
4. What is redundancy?
5. Define routers.
6. How the packet cost referred in distance vector and link state routing?
7. What is meant by congestion?

8. List out the user related attributes.
9. Define CGI.
10. How is a secret key different from public key?

SECTION B — (5 × 5 = 25 marks)

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

11. (a) Explain in detail about transport layer and physical layer.

Or

- (b) Compare connection oriented and connectionless service.
12. (a) Consider a 32 bit block of data 11100111 11011101 00111001 10101001 that has to be transmitted. If longitudinal redundancy check is used what is the transmitted bit stream?

Or

- (b) How does a token ring LAN operate? Discuss in detail.
13. (a) Briefly describe about the packet switching.

Or

- (b) What are routers and discuss about routers in detail.
14. (a) Compare the ISO OSI model and the TCP/IP reference model.

Or

- (b) Explain leaky bucket and token bucket algorithm.

15. (a) Discuss about the RSA algorithm.

Or

- (b) Explain the type of encryption/decryption method.

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

Answer any THREE questions.

16. Explain the ISO-OSI model of computer network with a neat diagram.
17. Discuss in brief about stop and wait protocol.
18. Briefly discuss how DES algorithm works?
19. Explain UDP and TCP with the neat diagram.
20. Explain how security is provided in interact operations in detail.
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D-7238

Sub. Code

13062/13262

DISTANCE EDUCATION

B.Sc.(CS)/B.Sc.(CS) (Lateral) DEGREE EXAMINATION

MAY 2021 EXAMINATION

&

MAY 2020 ARREAR EXAMINATION

Sixth Semester

Computer Science

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 client/server architecture.
2. Write about click event.
3. List out the rules for variables in VB.
4. Write the syntax of do..... loop structure.
5. Define recursive functions.
6. What is array?
7. Define MDI in VB.
8. What are the uses of menus?

9. Define DAO.
10. Write a SQL query to insert a record.

SECTION B — (5 × 5 = 25 marks)

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

11. (a) List out the applications of VB in detail.

Or

- (b) Discuss event driven procedures in VB.

12. (a) Illustrate select structure in VB with example.

Or

- (b) Write about Label box and text box with examples.

13. (a) Discuss about the string functions.

Or

- (b) Describe event handling in detail.

14. (a) Develop a VB program for adding code to menus.

Or

- (b) Discuss on creating MDI child forms.

15. (a) Write a VB program for editing data.

Or

- (b) Describe OLE DB in detail.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Discuss the form and controls in VB with suitable example program.
 17. Elaborate various looping structures in VB.
 18. Briefly explain date and time function and numeric functions.
 19. Explain in detail for creating menus and MDI form.
 20. Discuss about DAO to access record set.
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D-7239

Sub. Code

13063/13263

DISTANCE EDUCATION

B.SC.(CS)/B.SC.(CS)(LATERL ENTRY) DEGREE
EXAMINATION

MAY 2021 EXAMINATION

&

MAY 2020 ARREAR EXAMINATION

Sixth Semester

SOFTWARE ENGINEERING

(CBCS 2018 – 2019 Academic Year Onwards)

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions.

1. What does validation represent?
2. What is meant by software engineering paradigm?
3. Define data dictionary.
4. What are functional requirements?
5. List the guidelines for data design.
6. Name the commonly used architectural styles.
7. What are the various testing strategies for conventional software?
8. Write about drivers and stubs.

9. What are the types of static testing tools?
10. Define maintenance.

SECTION B — (5 × 5 = 25 marks)

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

11. (a) Write short notes on CMMI.

Or

- (b) Which process model having realistic approach and used in large scale system.

12. (a) Compare functional and behavioral models.

Or

- (b) Explain the extensions of DFD for real time systems.

13. (a) Write short notes on user interface design process?

Or

- (b) Describe the design procedure for data acquisition system.

14. (a) Describe unit testing and integration testing. How test plans are generated?

Or

- (b) Explain boundary value analysis in detail.

15. (a) Explain in detail about the maintenance process.

Or

- (b) Give short notes on task scheduling with an example.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain iterative waterfall and spiral model for software life cycle and discuss various activities in each phase.
 17. Describe the ways and means for collecting the software requirements and how are they organized and represented?
 18. Discuss the importance of user interface design in sale of software.
 19. Give black box testing methods with its advantages and disadvantages.
 20. Explain the need for software measures and describe various metrics.
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