25. (a) Explain different types of communication media.

Or

(b) What is network topology? What are the different types of n/w topoly? Explain.

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Paper I — FUNDAMENTALS OF COMPUTERS

(For those who joined in July 1999 and after)

Time : Three hours   Maximum : 100 marks

PART A — (20 × 2 = 40 marks)

Answer ALL questions.

1. List out the components of a computer.

2. Mention the characteristics of computer.

3. What are the things that computers can do?

4. Give the types of computer.

5. What do you mean by binary number system?

6. What is Hexadecimal number system?

7. Define 'Complements'.

8. Write the decimal equivalent of $(1111)_2$.

9. State the functions of touch screen.

10. What is a digitizer?

11. Mention the different types of printers.

12. What is PROM?

13. What is virtual storage?

14. What is on line system?

15. Give examples of multi user OS.

16. What is modulation?

17. Define 'ISDN'

18. What is 'MAN'?

19. List out any four communication media.

20. What is TCP/IP?

PART B — (5 × 12 = 60 marks)

Answer ALL questions.

21. (a) What are the major functions of a computer? Explain.

Or

(b) Discuss the various computing methods in detail.

22. (a) Explain Octal number system.

Or

(b) Illustrate the capabilities of programming languages.

23. (a) What is magnetic disk? How does it works?

Or

(b) What are the different kinds of input devices? Explain any two.

24. (a) Explain why do we need an operating system.

Or

(b) Describe the different types of operating system.

(b) The balance b in an account with the principal p and simple interest of r% after n years is given by $b = p(1 + nr/100)$. Write a COBOL program to calculate b.

24. (a) Describe the use of following statements with examples :

    (i)   GOTO

    (ii) ALTER

    (iii) GOTO....DEPENDING ON.

Or

    (b) Explain about the use of SET and SEARCH statements with suitable examples.

25. (a) Write a COBOL program for preparing pay slips for employees using sequential file.

Or

    (b) Write a COBOL program to implement inventory using sequential file.

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Paper II — COBOL AND DATA PROCESSING

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(For those who joined in July 1999 and after)

Time : Three hours   Maximum : 100 marks

PART A — (20 × 2 = 40 marks)

Answer ALL questions.

1. Distinguish between Numeric and Non-numeric literals.

2. Write a note on Environment Division.

3. What is the use of FILE-CONTROL paragraph?

4. Why the following programmer-supplied names are invalid? Write the reasons.

    (a) 1978-79

    (b) RATE/UNIT

5. Write the use of level number 77.

6. What is the purpose of PICTURE clause?

7. Write a note on ACCEPT statement.