PAPER :- 1
COMPUTER PROGRAMMING
FUNDAMENTALS

Note : Question No. 1 is compulsory. Attempt five questions in all by selecting one question from each unit.

(Compulsory Question)

1. (a) Define Top Down approach.
   (b) Differentiate between Sequential and Direct Access devices.
   (c) Distinguish between Online system and Real Time system.
   (d) Name the different types of topologies used in Networking.
   (e) What is Program Documentation?
   (f) Why we need translator with High level language?   6×3

UNIT-I

   (a) Distinguish various types of computers depending upon their size.
   (b) Describe the function of Control unit in detail.
   (c) Explain major application areas in computers.   3×6

3. (a) Explain Access mechanism of a compact disk.
   (b) Describe various types of ROM.
   (c) Distinguish Primary & Secondary Memory.   3×6

UNIT-II

4. (a) Explain the following :

    (i) Joy Stick.

    (ii) Light Pen

    (iii) Plotters.

    (iv) Non-Impact Printers.

    (v) MICR.

    (vi) OCR   6×2

    (b) What do you understand by System software? Name any two and explain.   6

5. (a) What do you mean by Operating system? Write its various functions.

    (b) Distinguih between Time Sharing and Real Time systems.

    (c) What do you mean by Computer virus? Define its various types.   3×6

UNIT-III

6. (a) Explain various types of Errors in a program with the help of an example.

    (b) Distinguish between Machine language and High level language.

    (c) Describe various steps for Program development.   3×6

7. (a) Explain various Problem-solving techniques along with suitable examples

    (b) Write an algorithm to find factorial of a number.

    (c) Explain Structured programming concept.   3×6

UNIT-IV

8. (a) What is a Computer network? Explain various types of Computer networks and their features.

(b) Explain various uses of Internet.

(c) Explain WWW.

9. (a) Write algorithm for Binary Search.

(b) Write algorithm for Selection sort.

(c) Write various Network Topologies.   3×6