



- (A) Corel Draw. (B) Wordstar.  
(C) Lotus 1-2-3. (D) Dbase III.

g. A word processor is

- (A) A computer program that handles text.  
(B) An output device.  
(C) An input device.  
(D) A device that tells us the meaning of words.

h. The part of the operating system, which permanently resides in the main memory, is

- (A) Job Scheduling model. (B) Kernel.  
(C) Translator. (D) Compiler.

### PART I

Answer any **THREE** Questions. Each question carries 14 marks.

- Q.2** a. Draw a flowchart to find the sum of the series up to N terms.  
 $S = 2 + 5 + 10 + 17 + 26 + 37 + \dots$  (7)
- b. What is a decision table? Give the steps to construct a decision table. (3 + 4)
- Q.3** a. Write an algorithm to find the largest of the given three numbers X1, X2, X3. (7)
- b. What is a pseudocode? Give two advantages and disadvantages of pseudocode. (3 + 4)
- Q.4** a. Write a BASIC program to generate fibonacci series up to 10000.  
 1, 1, 2, 3, 5, 8, 13, 21 .... (7)
- b. What are the two types of errors that commonly occur in any computer program? Explain about the errors that can be detected by the computer. (7)
- Q.5** a. Write a FORTAN program to compute the area and perimeter of a triangle, given the sides of a triangle.  $s = (a + b + c) / 2$ .  

$$\text{area} = \text{sqrt} (s (s - a) (s - b) (s - c))$$

$$\text{perimeter} = s$$
 (7)
- b. Define the terms source program and object program with respect to assembly language programming. How is the source program converted to an object program? (4 + 3)
- Q.6** a. Differentiate between modular and structured programming techniques. (6)

- b. Illustrate the working of an interpreter. Give the advantages of an interpreter over the compiler. **(8)**

## PART II

**Answer any THREE Questions. Each question carries 14 marks.**

- Q.7** a. The number of directories used and the way these directories are organized varies from one system to another. Explain the three types of directory organizations that are commonly used. **(8)**
- b. Define the time-sharing mechanism. How is it achieved? Explain the working of a time-sharing system with the help of a diagram. **(6)**

- Q.8** a. Mention the main functions of a CPU in the computer system. **(3)**
- b. Explain how the CPU executes an instruction in a computer system. **(7)**
- c. Name the registers that are used by the ALU to perform various tasks. Explain how these registers help. **(4)**

- Q.9** a. By default how are numeric data and text data aligned in a spreadsheet? **(2)**
- b. How is the column heading aligned to the center when two columns have the same column heading? **(2)**
- c. Explain how the functions work in a spreadsheet with an example.  
 (i) SUM. **(ii)** MAX  
 (iii) AVG. **(6)**
- d. A worksheet contains the following details. Give the sequence of steps to draw the bar graph of the material in all months. **(4)**

	A	B	C	D	E	F	G
1	Expenses	Jan	Feb	Mar	Apr	May	Jun
2							
3	Material	30.0	26.0	21.0	28.0	32.0	29.0

- Q.10** a. Explain the word wrap feature in a word processor package. **(4)**
- b. Explain briefly, the procedure to  
 (i) Change the line spacing between the lines of a paragraph.

- (ii) To insert a picture into a document.
  - (iii) To change the font size of the paragraph. **(2+3+1)**
- c. It is required to print the page number at the bottom and a heading at the top-center of the page. Give the steps to achieve this. **(4)**

**Q.11**

- a. **(4)** Mention the tasks performed by the Utility Programs.
- b. Define the System software. **(2)**
- c. Write a short note on personal assistance package. **(8)**