

Q.2 Answer any **THREE** of the following: (12)

- a) Describe structure of program.
- b) Write an algorithm to Fibonacci series.
- c) Draw flowchart to find LCM of given two numbers.
- d) Describe bubble sort with proper example.

Q.3 Answer any **FOUR** of the following: (12)

- a) Write a Pseudo Code to check whether the given number is Armstrong or not.
- b) Explain flowchart symbols with their purposes.
- c) Write an algorithm to find factorial of a number.
- d) Draw flowchart to calculate net salary of an employee.
- e) Write an algorithm to calculate area of triangle and rectangle.

Q.4 Answer any **TWO** of the following: (12)

- a) Illustrate Binary search algorithm with suitable example.
- b) Write a Pseudo Code for counting each vowel separately in the given string.
- c) Explain Quick sort with suitable example.

Q.5 Answer any **TWO** of the following: (12)

- a) Write an algorithm to find sum of first twenty even numbers and odd numbers.
- b) Explain various features of Pseudo Code.
- c) Draw a flowchart to find maximum number using an array.

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