

22226

23124

3 Hours / 70 Marks

Seat No.

--	--	--	--	--	--	--	--

- Instructions* –
- (1) All Questions are *Compulsory*.
 - (2) Illustrate your answers with neat sketches wherever necessary.
 - (3) Figures to the right indicate full marks.
 - (4) Assume suitable data, if necessary.
 - (5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

- 1. Attempt any FIVE of the following: **10****
- a) Draw flowchart for checking whether given number is positive or negative.
 - b) list any four keywords used in 'C'.
 - c) State any two decision making statements.
 - d) Define array and list its type.
 - e) List the categories of user defined function.
 - f) Define pointer. Write syntax for pointer declaration.
 - g) Draw and label any four symbols used in flowcharts.

P.T.O.

- 2. Attempt any THREE of the following: 12**
- a) Draw flowchart for finding largest number among three numbers.
 - b) Write a program using switch statement to check whether entered character is VOWEL or CONSONANT.
 - c) Differentiate between character array and integer array with respect to size and initialization.
 - d) Explain pointer arithmetic operations with example.
- 3. Attempt any THREE of the following: 12**
- a) State the use of printf() and scanf() with suitable example.
 - b) Explain any two string handling functions with syntax and example.
 - c) Describe the following terms:
 - i) Keyword
 - ii) Identifier
 - iii) Variable
 - iv) Constant
 - d) Write a program to find area of circle using user defined function.
- 4. Attempt any THREE of the following: 12**
- a) Write algorithm and draw flowchart to print even numbers from 1 to 50.
 - b) Explain increment and decrement operator with example.
 - c) Write a program to sum all the odd numbers between 1 to 20.
 - d) Illustrate initialization of one dimensional array with example.
 - e) Difference between call by value and call by reference.

- 5. Attempt any TWO of the following:** **12**
- a) Write a program to print fibonacci series starting from 0 and 1.
 - b) Write a program for addition of two 3×3 matrices.
 - c) Write a program to compute the sum of all elements stored in an array using pointer.
- 6. Attempt any TWO of the following:** **12**
- a) Write a program to declare structure employee having data member name, age, city. Accept data for three employees and display it.
 - b) Write a program to find factorial of a number using recursion.
 - c) Write a program to accept two numbers from user and perform addition, subtraction, multiplication and division operations using pointers.
-