

22374

12425

03 Hours / 70 Marks

Seat No.

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- 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) Use of Non-programmable Electronic Pocket Calculator is permissible.
- (6) 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) List different operator used in C.
 - b) Define array with suitable example.
 - c) State the syntax to declare pointer variable with example.
 - d) List features of 'C' preprocessor.
 - e) Draw and Label symbols used in flow chart. (Any two)
 - f) State any four math library functions with its use.
 - g) State file inclusive directive and its importance in C.

P.T.O.

- 2. Attempt any THREE of the following :** **12**
- a) Explain increment and decrement operator with example.
 - b) Explain do-while loop with example.
 - c) Explain any four string functions with example.
 - d) List the categories of functions and explain any one with example.
- 3. Attempt any THREE of the following :** **12**
- a) State four arithmetic operations on pointer with example.
 - b) Differentiate between Macro and function.
 - c) Develop a simple 'C' program for addition and multiplication of two integer numbers.
 - d) State the significance of 'break' and 'continue' statements in 'C'
 - e) Distinguish between call by value and call by reference.
(Any four points)
- 4. Attempt any THREE of the following :** **12**
- a) Write a program to accept a string as input and determine its length without using string function.
 - b) Develop a program to find diameter, circumference and area of circle using function.
 - c) Develop a program to swap two numbers using pointer and add swapped numbers also print their addition.
 - d) Explain the use of conditional operator with example.
 - e) Write a program to accept the value of year as input and print whether it is a leap year or not.

5. Attempt any TWO of the following : 12

- a) Write a program to calculate sum of all even numbers between 1 to 100.
- b) Write a program for addition of two 3×3 matrices.
- c) Develop a program to find factorial of a number using recursion.

6. Attempt any TWO of the following : 12

- a) Write a program to print day of the week name by taking number from 1 to 7 using switch case.
 - b) Design a program in 'C' to read the n numbers of values in an array and display it in reverse order.
 - c) Write a program to declare structure student having data member rollno, name and percentage. Accept data for two students and display it.
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