

22226

12526

3 Hours / 70 Marks

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
(2) Answer each next main Question on a new page.
(3) Illustrate your answers with neat sketches wherever necessary.
(4) Figures to the right indicate full marks.
(5) Assume suitable data, if necessary.
(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) Define Algorithm and flowchart.
 - b) Define Array.
 - c) State different types of functions.
 - d) State two differences between While loop and Do while loop.
 - e) Draw and label at least four symbols used in flowchart.
 - f) Write the use of indirection operator(*)
 - g) State any two advantages of function.

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- 2. Attempt any THREE of the following : 12**
- a) Write down general rules for drawing flowchart.
 - b) Write a 'C' program to find sum of digits of a given number.
 - c) Write a 'C' program to reverse the given number using loop.
 - d) Describe the following term :
 - i) Identifier
 - ii) Variable
 - iii) Constant
 - iv) Keyword
- 3. Attempt any THREE of the following : 12**
- a) Describe the use of break and continue in loops.
 - b) Write an algorithm and flowchart for finding area of rectangle.
 - c) Write a 'C' program to perform sum of all odd numbers between 1 to 20.
 - d) Define structure and declaration of structure and structure variable.
- 4. Attempt any THREE of the following : 12**
- a) Describe use of Header files in 'C' language.
 - b) Explain increment and decrement operator with example.
 - c) Explain four string functions.
 - d) Write a 'C' program to sort array elements in ascending order.
 - e) Write a 'C' program to swap two numbers using call by value.

5. Attempt any TWO of the following :**12**

- a) Write a 'C' program to print following pattern.

1 2 3 4

1 2 3

1 2

1

- b) Explain how to initialize and define structure 'C' programming.
c) Explain user defined function with example.

6. Attempt any TWO of the following :**12**

- a) Write a 'C' program to print reverse of entered string using pointer.
b) Explain Recursive function with suitable example.
c) Write a 'C' program for addition of 3×3 matrices.
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