

22226

24225

3 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) 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 and label any two symbols used in flow chart.
 - b) Define :
 - i) Token
 - ii) Variable
 - c) Write the importance of branching statement.
 - d) State any two header files used in C.
 - e) Write the meaning of ‘&’ and ‘*’ with respect to pointer.
 - f) Write general structure of ‘C’ program.
 - g) Write the syntax of for loop.

P.T.O.

- 2. Attempt any THREE of the following :** **12**
- a) Write an algorithm to check entered integer number is odd or even.
 - b) Write a program to generate the multiplication table of given number using 'While' loop.
 - c) Describe the use of structure with its syntax and example.
 - d) Differentiate between call by value and call by reference.
(Any four points)
- 3. Attempt any THREE of the following :** **12**
- a) Explain (? :) conditional operator with example.
 - b) Write a program to find grade of student by using switch statement.
 - c) Describe scanf() function with its syntax and example.
 - d) Write a program to exchange value of two integer variable using a function.
- 4. Attempt any THREE of the following :** **12**
- a) Write algorithm and draw flowchart to check given integer number is divisible by 7 or not.
 - b) Write a program to find whether two given string accepted by user are 'match'. If 'match' then display 'successful matching' message on screen.
 - c) Write a program using function to convert a decimal number to a binary number.
 - d) Write a program to perform arithmetic operations on pointer.
 - e) Write a program to sort elements of an array in ascending order and display it.

5. Attempt any TWO of the following : 12

- a) Write a program to find largest of given three integer number using nested if statement.
- b) Write a program for addition of two 3×3 matrices.
- c) Write a program to call function by using pointer. (pointer to function)

6. Attempt any TWO of the following : 12

- a) Write a program using structure to read details of 10 employee. Display details of only those employee having designation as 'programer'.
 - b) Write a program to find factorial of a number using recursion.
 - c) Write a program to demonstrate the use of pointer to structure.
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