

312303

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) 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**
- Differentiate between do-while and while loop. (Any two points)
 - Define Algorithm and Flowchart.
 - Define array and list its types.
 - Explain '*' and '&' operator in pointer.
 - List any four math functions.
 - Enlist any four keywords used in 'C'.
 - Draw different symbols used in flowcharts.

P.T.O.

- 2. Attempt any THREE of the following :** **12**
- a) Explain following functions.
 - i) getch ()
 - ii) putchar ()
 - b) Write a program that accepts marks of 5 subjects. Calculate percentage and display grade of student from percentage.
(Grade : Distinction, first class, second class, pass class, fail)
 - c) Explain continue and break statements with example.
 - d) Explain pointer arithmetic with example.
- 3. Attempt any THREE of the following :** **12**
- a) Explain recursion with example.
 - b) Write C program to find largest number among three numbers.
 - c) Write a C program that will accept 5 data elements in array and arrange them in ascending order.
 - d) Explain any two string functions with example.
- 4. Attempt any THREE of the following :** **12**
- a) Define general structure of 'C' program.
 - b) Differentiate between call by value and call by reference.
(Any four points)
 - c) Write a program to demonstrate concept of pointers to array.
 - d) Explain two dimensional array with example.
 - e) Write a program to calculate sum of all even numbers between 1 to 20.

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

- a) Write a program using for loop to print
- 1
2 2
3 3 3
4 4 4 4
- b) Write a program to print values of variables and their addresses.
- c) Explain local variables and global variables with example.

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

- a) Write a program to declare structure employee having data members name, age, street, city. Accept data for two employee and display it.
- b) Write a program for addition of two 3×3 matrices.
- c) Write a C program to demonstrate how function returns a pointer.
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