

312303

23242

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) List any four keywords used in C.
- b) State any four math functions with its use.
- c) Define pointer. Write syntax for pointer declaration.
- d) Write the syntax of switch case statement.
- e) Define array. List its type.
- f) Define type casting. Give any one example.
- g) Declare a structure student with elements roll-no and name.

P.T.O.

- 2. Attempt any THREE of the following:** **12**
- a) Develop a 'C' program for addition and multiplication of two integer numbers.
 - b) Explain pointer arithmetic with example.
 - c) Explain following functions:
 - i) `getchar( )`
 - ii) `putchar( )`
 - iii) `getch( )`
 - iv) `putch( )`
 - d) Write a program to print Fibonacci series
1 1 2 3 5 8 . . .
- 3. Attempt any THREE of the following:** **12**
- a) Explain conditional operator with example.
 - b) Explain any two string functions with example.
 - c) Differentiate between while and do-while loop.
 - d) Write a program that will accept 5 data elements in array and arrange them in ascending order.
- 4. Attempt any THREE of the following:** **12**
- a) Describe general structure of C program.
 - b) Differentiate between call by value and call by reference.
 - c) Write a program to print sum of digits in the given number.
 - d) Write a program to demonstrate concept of pointer to function.
 - e) Illustrate initialization of two dimensional array with example.

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

- a) Write a program using switch statement to check whether entered character is vowel or consonant.
- b) Write a program for addition of two 3×3 matrices.
- c) Write a program to find factorial of a number using recursion.

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

- a) Differentiate between break and continue statement. State the use of break and continue statements with example.
 - b) Write a program to declare structure employee having data members name, age, street and city. Accept data for two employees and display it.
 - c) Explain with example array of pointers.
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