

312303

23242

3 Hours / 70 Marks

Seat No.

--	--	--	--	--	--	--	--

- 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 and 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.
-