

312303

24225

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**
- a) List the data types used in C.
 - b) Write the syntax of else - if ladder
 - c) State the use of break and continue statement.
 - d) Define Array. Write the declaration of two dimensional array.
 - e) State the use of getchar() and putchar() function.
 - f) Write any two advantages of pointer.
 - g) Define structure with example.

P.T.O.

- 2. Attempt any THREE of the following :** **12**
- a) Draw and explain general structure of C program.
 - b) Write a program to accept the value of year as input from keyboard and print whether it is leap year or not.
 - c) Differentiate between character array and integer array with respect to size and initialization.
 - d) Write a program to swap the values of variable a = 20, b = 30 using function.
- 3. Attempt any THREE of the following :** **12**
- a) Explain the printf() and scanf() statement with syntax and example.
 - b) Write a program to take input as a number and print its reverse number.
 - c) Write a program using structure to print data of 5 students having data members name, class and percentage.
 - d) Explain how to pass pointer to function with example.
- 4. Attempt any THREE of the following :** **12**
- a) Define variable. State the rules for naming of variables.
 - b) Write a program to accept 10 numbers in array and print sum of it.
 - c) Write a program to find area of circle using function.
 - d) Explain following string handling functions with syntax and example.
 - i) Strcmp()
 - ii) Strrev()
 - e) Explain the use of '*' and '&' operator with example.

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

- a) Explain any 3 arithmetic operators and bitwise operators used in 'C' with an example.
- b) Write a program to print the grades of student according to percentage of marks using nested if ----- else statement.

Per - marks	Grade
80 – 100	Distinction
60 – 79	First Class
50 – 59	Second Class
0 – 49	Fail

- c) Write a program to print addition of two 3×3 matrices.

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

- a) Describe switch case statement with syntax and example.
 - b) Explain function declaration, function definition and function call with the help of example.
 - c) Write a program to accept two numbers from user and perform addition subtraction, multiplication and division operation using pointer.
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