Time: 3 hrs **Max. Marks: 80**

N.B.: (1) Question No 1 is Compulsory.
(2) Attempt any three questions out of the remaining five.
(3) All questions carry equal marks.
(4) Assume suitable data, if required and state it clearly.

1		Attempt any FOUR	**[20]**
	a	Explain the following statement with example i.break ii.continue	**5**
	b	What is Algorithm? Write a algorithm to check given number even or odd	**5**
	c	Write a C program to count the number of Upper Case and Lower Case Characters from a given sentence.	**5**
	d	Explain in brief Ternary Operator operators. WAP to find the largest of given 3 numbers using ternary operator.	**5**
	e	Explain Structure of C Program.	**5**
2	a	Write a Program To Display Following Pattern 1 121 12312 1234123	**[10]**
	b	WAP to find the transpose of a matrix of size m*n .use function transpose to do this operation.	**[10]**
3	a	Write a short Note with example on following (Any Two) 1. Pointers in C 2. Arrays in C 3. Arithmetic and Logical in C 4. Primitive Data Types in C	**[10]**
	b	Explain storage class with on programming example.	**[10]**
4	a	Write a program to reverse a user entered string.	**[10]**
	b	What is recursion? Write a program using recursion to find the factorial value of given integer number.	**[10]**
5	a	WAP to find particular no. in array using linear search.	**[10]**
	b	Explain various String Functions in C Programming with suitable examples.	**[10]**
6	a	Explain call by value and call by reference with example.	**[10]**
	b	Define a structure Employer with following variables (i) Employee code (ii) Employee name (iii) Employee salary (iv) Employee designation. Write a program to read the structure for 05 employees and display record in sorted Order of employee code.	**[10]**

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