Sem-II - (CBGB)

(3 Hours)

[Total Marks: 80]

(1) Question No.1 is compulsory.

(2) Attempt any three questions from remaining.

(3) Figures to right indicate full marks.

(4) Assume suitable data wherever necessary.

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	(What is recursion? Write a program to find x ^y using recursion State any two library functions string.h along with its syntax, use an example What is a pointer? Explain how the pointer variable declared and initialized. Write the output for following code #include <stdio.h> int main() {</stdio.h>	4 4 4 4
		int val=1;	
		do{	
		val++;	
		++val;	
		}while(val++>25);	
		printf("%d\n",val);	
		return 0;	
,	(e) (a)		1
Ī	(b)	Write a program to multiply two matrices after checking compatibility. What is file? What are the different functions after checking compatibility.	4 10
		the different modes in which files can be available to read data from file? Specify	
3	(a)	Write a program to find transpose of matrix with and with syntax.	10
	(b)	of tollowillo elements	10
		 student roll_no student name 	10
		3. student percentage	
		Write a program to read records of 5 students and 11	
	(a)	Write a program to calculate summation of series.	
		$\frac{1}{1!} + \frac{2}{2!} + \frac{3}{3!} + \dots + \frac{n}{n!}$	10
	(b)	Draw the flowchart for finding the roots of quadratic equation. Write the program for same.	1.0
	(a)	Write a program to implement calculator with following operations using switch case 1. add two numbers	10
		And the state of t	

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2. Subtract two numbers

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- 3. Multiply two numbers
- 4. Divide two numbers
- (b) What do you mean by FILE? What are the different functions available to read data from file? Specify the different modes in which file can be opened along with syntax.
- 6. (a) Write a program to generate following patterns.
 - 1. 1 1 2 1 2 3 1 2 3 4 1 2 3 4 5
 - 2. 1 2 3 3 4 5 6 7 8 9
 - (b) Explain call by value and call by reference with example.

10

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