F.E (Sem II) CBGS Structured Programing Appropagh

(3 Hours)

[Max Marks 80

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(1) Question no. 1 is compulsory.

(2) Attempt any 3 from the remaining questions.

(3) Assume suitable data if necessary.

(4)	Figures to right indicate full marks.	
QI(a)	What do you mean by register and static storage class. Explain with example.	4
Q1(b)	State any 2 library function in string.h with example.	4
Q1(c)	Explain any 2 bitwise operators in C with example	4
Q1(d)	Explain the difference between while and do while loop.	74
QI(e)	Explain pow(), abs(), isalnum() and ceil() function.	154
Q2(a).	What is the use of structure? Explain with an example. Also explain the concept of nested structures.	10
Q2(b)	Write a program in C to find minimum number in an array.	10
Q3(a)	Write a program which will accept 2 dimensional square matrix and	
1000 CO	find out transpose of it. Program should not make use of another matrix.	10
Q3(b)	With reference to parameter passing to function explain call by value	-
* * *	and call by reference with an example	10
Q4(a)	Write a program to search a number within the array.	09900
Q4(b)	What do you mean by Danwaian a mile a may.	10
Q1(0)	What do you mean by Recursion? write a program which will add first n natural numbers using recursion.	10
Q5(a)	Write a program in C to implement following summation of series upto n terms.	10
	$1 - x^2/2! + x^4/4! - x^6/6! + x^8/8!$	
Q5(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.	10
Q6(a)	Generate the following pottern of divise mains and I	272
40(a)	Generate the following pattern of digits using nested loops (i)	10
	232	
	3 4 5 4 3	
	4567654	
	A. A	
	(ii) * (iii)	
	* * *	
	* * *	
	* * * *	
	* * * * *	
Q6(b)	Write a function to check whether the given number is Armstrong	
× 1,77	number or not. An Armstrong number is a number in which sum of	10
1	of its all digits is equal to number its a number in Which sum of	
	cate of its all digits is equal to number itself. For example 371 is an	
X	Armstrong number, since $3^3 + 7^3 + 1^3 = 371$. Use above function to generate all Armstrong numbers between 1 to 1000	
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