CONTINOUS INTERNAL EVALUATION - 3

Dept: CSE	Sem/Div: 1st Sem D, E & F	Sub: C Programming for Problem Solving	S Code: 18CPS13
Date: 08.04.21	Time: 3 - 4:30pm	Max Marks: 50	Elective: N

Note: Answer any 2 full questions, choosing one full question from each part

QN		Questions	Marks	RBT	CO's
		PART A			
1	a	What are storage classes in C programming? Explain their life time, scope initial value and storage space. Also explain use of auto and register storage classes.	10	L2	CO4
	b	Implement structures to read, write, compute average marks and the students scoring above and below the average marks for a class of N students.	10	L3	CO4
	c	Write a recursive C program to convert binary to decimal.	5	L3	CO4
2	a	What is structure? With syntax and example explain how they are defined, declared and initialized.	10	L2	CO4
	b	Explain extern and static storage classes with a C program for each.	10	L2	CO4
	c	List different types of parameter passing in function based on structure. Write a C program to pass members of a structure to a function.	5	L3	CO4
3	a	What is pointer? With syntax and example explain how it is declared and initialized. Write a C program	10	L3	CO

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		two integer variables using pointer.		
	b	Develop a program using pointers to compute the sum, mean and standard deviation of all elements stored in an array of n real numbers.	10	L3
	c	Compare arrays and structures.	5	L2
		OR		
4	a	Explain double pointers and array of pointers with an example for each.	10	L2
	b	Explain pre-processor directives. Write a C program to find the addition of two squared numbers by defining macro for square(x).	10	L3
	c	List all compiler controlled directives and explain #ifdef with an example.	5	L2

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