## Vivekananda College of Engineering & Technology, Puttur

[A Unit of Vivekananda Vidyavardhaka Sangha Puttur ®]
Affiliated to VTU, Belagavi & Approved by AICTE New Delhi

CRM08	Rev 1,10	CSE	21.09.2021
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## CONTINUOUS INTERNAL EVALUATION - 3

Dept: CSE	Sem/Div: 2 A, B, C	Sub: C Programming for Problem Solving	S Code: 18CPS23	
Date: 24.09.21	Time: 3.00pm to 4.30pm	Max Marks: 50	Elective: N	
New Assessment 2 fell meeting all miles on fell meeting from the second				

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

Ç	N <sub>2</sub>	Questions	Marks	RBT	COs				
		PART A							
1	a	What are storage classes in C programming? Explain their life time,	10	L2	CO4				
		scope, initial value and storage space. Also explain use of auto and							
		register storage classes.							
	b	Implement structures to read, write, compute average marks and the	10	L3	CO4				
		students scoring above and below the average marks for a class of N							
		students.							
	c	Write a recursive C program to convert binary to decimal.	5	L3	CO4				
	OR								
2	a	What is structure? With syntax and example explain how they are	10	L2	CO4				
		defined, declared and initialized.							
	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	5	L3	CO4				
		structure. Write a C program to pass members of a structure to a							
		function using pointer.							
		PART B							
3	a	What is pointer? With syntax and example explain how it is declared	10	L3	CO4				
		and initialized. Write a C program to swap two integer variables using							
		pointer.							
	b	Develop a program using pointers to compute the sum, mean and	10	L3	CO4				
		standard deviation of all elements stored in an array of n real							
		numbers.							
	c	Explain how to use <i>typedef</i> in structure.	5	L2	CO4				
	OR								
4	a	Explain pointer to array and array of pointers with an example for	10	L2	CO4				
		each.							
	b	Explain categories of macro substitution pre-processor directives.	10	L3	CO4				
		Write a C program to find  -x  by defining macro for ABS(x).							
	c	Explain nested structures with an example.	5	L2	CO4				



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