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

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CRM08 Rev 1.11 CSE 08-02-2022

CONTINUOUS INTERNAL EVALUATION - 2

Dept: CSE	Sem / Div: 1 st D, E, F	Sub: Problem Solving through Programming	S Code: 21PSP13
Date: 17-02- 2022	Time: 3:00- 4:30pm	Max Marks: 40	Elective: N

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

Q	N	Questions	Marks	RBT	CO's				
	PART A								
1	8	Write the syntax of two-way selection branching statements and explain their working.	8	L2	CO2				
*	b	Implement a C program to find greatest number among three numbers using if-else statement.	7	L3	CO2				
	С	Implement a C program to display the grade on marks as follows.			CO2				
		Marks Grade							
		0-39 F 40-49 E							
		50 – 59 D							
	1	60 – 69 C							
		70 – 79 B							
		80 – 89 A 90 – 100 O							
OR									
2	a l	Differentiate between while loop and do-while loop. Explain with syntax and example.	8	L2	CO2				

	b	Develop a C program to get the triangle of numbers in the following format. 1 1 2 1 2 3 1 2 3 4	7	L	3 CO2			
	С	Write a C program to plot Pascal's triangle	5	L3	CO2			
	PART B							
3	a	What is an array? Write Syntax for 1D array and initialize the same with suitable example and elaborate.	8	L2	CO3			
	b	Develop a C program to find the value 25 in the given array using binary search technique. A[15]={ 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55} Provide appropriate messages in each stage.	7	L3	CO3			
	c	Implement a C program to find transpose of a matrix. Trace the program with a 2x2 matrix.	5	L3	СОЗ			
	_	OR		*				
4	a	Define string. List out all string manipulation functions. Explain any two with examples.	8	L2	CO3			
	b	Develop a C program to sort the numbers in ascending order using Bubble Sort Technique.	7	L3	CO3			
	С	Implement a C program to find sum of N natural numbers.	5	L3	CO3			

Prepared by: Prof. Pradeep Kumar KG