Vivekananda College of Engineering & Technology, Puttur[A Unit of Vivekananda Vidyavardhaka Sangha Puttur ®]Affiliated to VTU, Belagavi & Approved by AICTE New DelhiCRM08Rev 1.10CSE22.06.2021

<u>CONTINUOUS INTERNAL EVALUATION - 1</u>					
Dept: FY	Sem/Div: 2 A, B, C	Sub: C Programming for Problem Solving	S Code: 18CPS23		
Date: 25.06.21	Time: 3.00pm to 4.30pm	Max Marks: 50	Elective: N		
Note: Answer any 2 full questions, choosing one full question from each part.					

QN	Questions	Marks	RBT	COs		
	PART A					
1 a	What is a Computer? Explain various types of computers.	10	L2	CO1		
b	Explain basic structure of C program along with a program to find the volume of sphere.	10	L2	CO2		
c	Explain working of hard disk with a neat diagram.	5	L2	CO1		
OR						
2 a	With a neat diagram explain architecture of computer.	10	L2	CO1		
b	What is a token? List all types of tokens used in C programming					
	language with an example for each. And also explain how to use	10	L2	CO2		
	below listed six operators with an example for each.					
	! sizeof ++ , ^ >>=					
c	What is networking? Explain any four networking components.	5	L2	CO1		
PART B						
3 a	List all branching statements used in C Programming language. Explain any three two-way selection statements with an example for each. Also write their syntax and flowchart.	10	L2	CO2		
b	Develop an algorithm, flowchart and also write C program					
	i) To swap values of two variables without using third variable.	10	L3	CO2		
	ii) To compute compound interest.					
c	How while loop is distinct from do-while loop? Justify your answer	5	L2	CO2		
	by comparing them.		L2	002		
	OR		1			
4 a	With syntax, flowchart and an example explain switch statement. And also write a C program to bifurcate input value into a digit or arithmetic operator using switch statement. Display appropriate messages.	10	L2	CO2		
b	 What is meant by formatted output statement? Explain formatted output function used in C with its control string specifications. i) Write printf statement to display "VCET\'Puttur" ii)Write printf statement to display +045.234 using appropriate control string. iii)Write printf statement to display 0xabba using appropriate control string. 	10	L3	CO2		
c	 i) Evaluate a + b && b / c % d * e 5 <= 0 != a + b - !0 Where a = 5, b = 6, c = 8, d = 2, e = 1 ii) Write C expression m = √1 + x + log cos 2x/sin x + y 	5	L2	CO2		



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Prepared by: Prof. Prabhakara B. K.

Prepared by: