Internal Assessment Question Paper – 1
Ramaiah Institute of Technology
(Autonomous Institute, Affiliated to VTU)

Department of CSE
Programme: B.E   **Term: May-August 2021**
Course: Fundamentals of Computing   **Course Code: CS26**
CIE: Test I   **SEM:** II   **Section:** A, B, C, D, E, F, G, H, I
Max Marks: 30   **Time:** 1Hr   **Portions for Test:** L1-L11
Date: 30/06/2021

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Instructions to Candidates:
1. Answer any **two** full questions. **Question one is compulsory**.
2. Each Question carries **15Marks**.

Sl #		Question	Marks	Bloom's Level	CO Mapping
1	a.	Explain the steps in Engineering Problem-Solving Methodology and demonstrate with an appropriate example.	06	L2	CO1
	b.	Write a C program to read the sides of a triangle using keyboard ,check whether the given triangle is isosceles, equilateral or scalene using if- else statement.	05	L2	CO2
	c.	Write the result of the following expressions. Consider int a=8, b=15, c=4 a) 4*((a/5)*(4-(b+3)%(c-2))) b) 125/20<=15-5+110%10-25==5>=1!=20 c) a*b<a+b‖c d) (a>b)+!a‖c++	04	L3	CO1
2	a.	Write a syntax of ternary operator. Write a C program to find the biggest of three numbers using ternary operator.	05	L1	CO1
	b.	Differentiate between while and do while statements with an example.	05	L3	CO2
	c.	Write a C program to read the range (first and last number) using keyboard, and print the prime numbers within this range using 'for' loop.	05	L2	CO2
3	a.	Write a C program to find whether the given number is positive, negative or zero using conditional operator.	05	L3	CO1
	b.	With a neat diagram, Explain the Internal Organization of a Computer	05	L2	CO1

	c.	Fill in the blanks. i. The _____operator is true only when both the operands are true. ii. The ternary conditional expression using the operator?: could be easily coded using _____ statement. iii. The _____statement when executed in a switch statement causes immediate exit from the structure. iv. The expression!(x!=y) can be replaced by the expression _____. v. _____can be accomplished using an else if statement causes immediate exit from the structure.	05	L2	CO2

Course Outcomes meant to be assessed by the IA Test: CO1, CO2 & CO5
CO1: Identify basic elements of computing systems to solve simple real world engineering problems (PO-1,2,PSO-1)
CO2: Illustrate the use of control structures, decision making and looping statements(PO-1,2,PSO-1)

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