

NITTE INSTITUTE OF TECHNOLOGY, NITTE
Off-Campus Centre of Nitte (Deemed to be University)
I Sem B.Tech. (CBCS) Mid Semester Examinations - I, September 2022
CS1001-1 – PROBLEM SOLVING THROUGH PROGRAMMING

Duration: 1 Hour

Max. Marks: 20

*Note: Answer any **One** full question from **each Unit**.*

		Unit – I			
		Marks	BT*	CO*	PO*
1.	a) Describe the various steps involved in program development with a neat diagram.	5	L*2	1	1
	b) Define the following terms i. Algorithm ii. Flowchart and write an algorithm and flowchart for computing Sum and Average of Three numbers.	5	L3	1	1
2.	a) Explain classification of Computers.	5	L2	1	1
	b) Define C token. List and explain any 4 rules for forming Identifiers with relevant examples.	5	L2	1	1
		Unit – II			
3.	a) Define Type Conversion in C. Explain its types with suitable examples.	5	L2	2	1
	b) Solve the following expressions i) $a/b \leq c-d+a\%10-b == d \geq e != b$ where $a=100, b=20, c=10, d=5, e=1$ ii) $--a*(5+b)/12- c++ *b+15\%4$ where $a=3, b=4, c=5$	5	L3	2	1
4.	a) Explain the following unformatted input and output function with syntax, code snippets and the output. i) <code>gets()</code> ii) <code>putchar()</code>	5	L2	2	1
	b) Write a C program to find the Volume of Cylinder. Formula: $V=\pi r^2 h$	5	L3	2	1

BT* Bloom's Taxonomy, L* Level; CO* Course Outcome; PO* Program Outcome
