

#### SRM Institute of Science and Technology Faculty of Engineering and Technology **School of Computing**

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#### CYCLE TEST - I Academic Year: 2022-2023 (ODD Semester)

Program offered: B.Tech (All Branches)

Year / Sem: I / I

Max. Marks: 25

Date: 13-10-2022

**Duration: 50 minutes** 

Course Code and Title: 21CSS101J: Programming for Problem Solving

# Course Learning Rationale (CLR):

CLR-1: Think and evolve with a logic to construct an algorithm and pseudo code that can be converted into a program.

### Course Learning Outcomes (CLO):

CLO-1: To solve problems through computer programming. Express the basic data types and variables in C

#### Part A (10\*1=10 Marks)

SI. No	Question	CO	РО	BL	Marks	PI CODE
1	Identify the statement is not a valid variable name declaration?  • int_a3;  • int a_3;  • int 3_a;  • int 3a;	1	1	1	1	1.6.1
2	C programs are converted into machine language with the help of  • An Editor  • A compiler  • An operating system  • Debugger		2	1	1	2.5.2
3	<ul> <li>is not a real programming code, but it models and may even look like programming code.</li> <li>Algorithm</li> <li>Flowchart</li> <li>Pseudocode</li> <li>Sequence of Instructions</li> </ul>	1	2	1	1	

4	ld					
	Identify the operator is not belongs to relational operation	1	2	1	1	and the second
		,	_			
	• &&					
	• =					
	CALCONS.					
5	• <==					
3	Find the output for the following code	1	2	3	1	Contraction (Section 2018)
		•	20			
	Void main()					
	{					
	int a,b;					
	a=5;					
	b-6;					
	printf("%d", a <b);< td=""><td></td><td></td><td></td><td></td><td></td></b);<>					
	printf(%d",a>b);					
	printf("%d",a!=b);					
	printf(%d",a=b); printf(%d",a=b)					
	• 1010					
	• 0101					
	• 5556					
	• d)5656			2	1	
6	Find the output of the following code	1	2	3	1	
	#include <stdio.h></stdio.h>					
	void main()					
	{					
	float a=2.3456;					
	int b=6;					
	printf("%0.2f/t %d",a,b);					
	}					
	• 2.3456 6					
	• 2.34 6					
	Compiler error					
	• 6 2.34					
7	Find the output of the given code	1	2	3	1	and the second s
,	#include <stdio.h></stdio.h>					
	void main()					
	( )					
	int a,b;					
	a=13;					
	b=a>>2;					
	printf("%d",b);					
	}				Tr. Comments of the Comments o	
	• 52					
	• 3					
	• 10				magnetic state of the state of	
	• 2					

		1	T		
	cal following code snippet.				
8	Find the output of the following code snippet.				
0	#include <stdio.h></stdio.h>				
	void main()	9			
	· · · · ·				
	int a,b;				
	a=5;			2	
	b=7;				
	a++;				
	printf("%d %d", a,b++);				
	}				
	• 57				
	• 58				
	• 67			,	
	• 68				
9.	Find the value of b and c in this C code				-
	#include <stdio.h></stdio.h>				
	void main()				
	{				
	int a,b,c;				
	a=5;				
	b=(a++)*2;				
	c=(a)*2;				
	(-a) 2,				
	nrintf(**0/ d 0/ lm 1				
	printf("%d %d", b,c);				
	A 12 10				
	• 12 10				
	• B. 12 8				
	• C. 10 10				
10	• D. 10 8				
. 10	Find The Output Of The Following Code Snippet int a=10;				
	int a=10;				
	Float $b=2.5$				
	char c='a';				
	printf("%d",sizeof(a));				
	[ 01 01 01 01				
	/001 C170 - CV				
	102./2				
	• 241				
	• 124				
-	• a 2.2 10				

# Part B (5\*2=10 Marks) Answer all questions

Sl.No	Question	CO	PO	BL	Marks	PI Code
11	List the properties of an algorithm.	1	2	1	2	2.6.3
12	List out the formatted input and output functions in C with its syntax and descriptions		2	1	2	2.6.3
13	Differentiate between constants and variables. Write down the rules for naming variables.		2	2	2	2.6.5
14	If a single character input through the keyboard, write a C program to print the ASCII value of a character		2	3	2	2.6.3
15	A man has deposited Rs.10000 in a bank for 5 year with the rate of interest 7.5%. Write a C program to find the simple interest and print the value in 2 decimal places.		2	3	2	2.6.3

# Part C( 1\*5=5 Marks)

SI.No	Question	CO	PO	BL	Marks	
16	Kamal's basic salary is inputted through the keyboard. His dearness allowance is 30% of basic salary, house rent allowance is 25% of basic salary and dearness allowance is 14 % of basic salary. Write a C program to calculate his gross salary.		2	3	5	2.6.3
17	(OR)					
Develop a C program to read a user and multiply the last digidigit.  Sample Input:  N = 3469  Output: 6 * 9 = 54	Develop a C program to read a number from the user and multiply the last digit and second last digit.	1	2	3	5	2.6.3
	Sample Input:					
	N = 3469					
	Output:					
	6*9 = 54					

# Course Outcome (CO) and Bloom's level (BL) Coverage in Questions

