



Ct1 Question Pater 1st

Programming For Problem Solving (SRM Institute of Science and Technology)



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Reg No:

RA2211027010245

CYCLE TEST - I

Academic Year: 2022-2023 (ODD Semester)

Program offered: B.Tech (All Branches)

Max. Marks: 25

Duration: 50 minutes

Year / Sem: I / I

Date: 12-10-2022

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

Course Learning Rationale (CLR):

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

Course Learning Outcomes (CLO):

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

Part A (10*1=10Marks)

Sl. No	Question	CO	PO	BL	Marks	PI CODE
1	Which of the following is not a valid C variable name? int age; <ul style="list-style-type: none"> float salary; char ch; int \$main; 	1	1	1	1	1.6.1
2	What is the output of the following code snippet? #include <stdio.h> int main() { float s; double a; char b; printf("%d", sizeof(s)+sizeof(a)*sizeof(b)); return 0; } <ul style="list-style-type: none"> 14 13 12 Compilation Error 	1	2	2	1	2.5.2
3	Choose the correct answer. #include <stdio.h> int main() { int value = 350; int value = 892; printf("SRMIST!%d",value); return 0; } <ul style="list-style-type: none"> SRMIST!350 	1	2	2	1	2.5.2

	<ul style="list-style-type: none"> Redefinition of value SRMIST!892 SRMIST! Followed by a junk value. 					
4	#include <stdio.h> int main() { int x, y = 5, z = 5; x = y == z; printf("%d", x); getchar(); return 0; } <ul style="list-style-type: none"> 0 1 5 Compile error 	1	2	2	1	2.5.2
5	After working of the prefix and postfix operators, select all the correct statements for the code given below: void main() { int x, y, z, k; x = 10; y = -x; z = x++; k = ++x; } <ul style="list-style-type: none"> Value of y will be -10 and k will be 12. Value of z will be 11 Value of k will be 10 and k will be 11 Value of k will be 11 	1	2	2	1	2.5.2
6	#include <stdio.h> // Assume base address of "GeeksQuiz" to be 2000 int main() { printf(5 + "GeeksQuiz"); return 0; } <ul style="list-style-type: none"> GeeksQuiz Quiz 2005 Compile time error 	1	2	2	1	2.5.2
7.	C is a ____ language High Level <ul style="list-style-type: none"> Low Level Middle Level Machine Level 	1	2	1	1	2.5.2
8.	The equality operator is represented by := <ul style="list-style-type: none"> .EQ. = == 	1	2	1	1	2.5.2

9.	What will be the output of the expression $11 \wedge 5$?	1	2	3	1	2.5.2
	<ul style="list-style-type: none"> • 5 • 6 • 14 • 13 					
10.	The operator + in $a+=4$ means	1	2	1	1	2.5.2
	<ul style="list-style-type: none"> • $a=a+4$ • $a+4=a$ • $a=4$ • $a=4+4$ 					

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

Sl.No	Question	CO	PO	BL	Marks	PI Code
11	<pre>#include <stdio.h> int main(){ char operator = '+'; int num1 = 12; int num2 = 10; int result = (operator == '+' _____); // Complete the statement by using ternary operator to get the result = 22, if not result = 2. printf("%d", result); return 0; }</pre>	1	2	3	2	2.6.3
12	List out any four data type modifiers in C.	1	2	2	2	2.6.3
13	Pick the correct one from the following declaration is not supported by C language? Justify the answer. a) String str; b) char *str; c) float str = 3e2; d) Both String str; & float str = 3e2;	1	2	2	2	2.6.3
14	Find out the output of the following C program? <pre>#include <stdio.h> int main() { int __=5; int __=10; int __; __ = + __; printf("%i",__); return 0; }</pre>	1	2	3	2	2.6.3
15	Rushanth is playing with a tennikoit ball (Circle) He knows the radius of the ball. Help him to find the area and perimeter of the ball using an expression in C programming. Hint: Perimeter of a circle = $2\pi r$ Area of a circle = πr^2	1	2	2	2	2.6.3

Part C (1*5=5 Marks)

Sl.No	Question	CO	PO	BL	Marks	PI Code
16	Mithran and Niranjan are two friends. Another friend Muthu is facing some issue to pay his tuition fees. Therefore, Mithran and Niranjan are giving some amount to Muthu to pay the fees. Write a C program to calculate how much amount Muthu is going to be paid. In addition, draw the flow chart for the same.	1	2	3	5	2.6.3
	(OR)					
17	Kumar had taken the loan amount Rs. 30000 before 3 years in the HDFC bank at 2.5% interest. He went to bank for make the payment of his loan. Therefore, could you help him to pay the correct amount by writing a C program to find the simple interest of his loan amount?	1	2	3	5	2.6.3

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

21CS5101: Programming for Problem Solving - CT1					
CO-Coverage					
No. of questions					
	CO1	CO2	CO3	CO4	CO5
Series1	17	0	0	0	0

