

QP PPS CT1 SET 2

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



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REG. NO.								



SRM Institute of Science and Technology College of Engineering and Technology School of Computing

SET 2

CYCLE TEST – I Academic Year: 2023-2024 (ODD Semester)

INSTRUCTIONS (Please READ):

- MOBILE PHONES ARE STRICTLY NOT PERMITTED
- Please **DO NOT WRITE** anything in the Question Paper (Except Reg. No.)
- Rough Work is <u>NOT PERMITTED</u> to do in Question Paper. You can use last page of your answer Booklet for doing Rough Work.
- Marking like .(dot), Tick mark ($\sqrt{\ }$) etc. is <u>NOT PERMITTED</u> in Question Paper. This will lead to Malpractice.
- Discussion with Neighbors leads to MALPRACTICE, which results in '0' Mark.
- <u>DO NOT BORROW</u> anything (Like Calculator, Pen, Pencil, Eraser etc.) from others.
- Follow Dress Code
- Question Paper should be submitted along with Answer Booklet.

Class: I Yr/ I Sem/B.Tech (SoC - All Branches)

Date: 05/10/2023

Max. Marks: 25

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 pseudocode that can be converted into a program.

CLR-2: Utilize the appropriate operators and control statements to solve engineering problems

Course Learning Outcomes (CLO/CO):

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

CLO-2: Use appropriate data types in simple data processing applications.

COURSE ARTICULATION MATRIX (CAM)

	PO1	PO2	PO 3	PO4	PO5	PO6	PO 7	PO8	PO9	PO1 0	PO11	PO12
CLO1/CO1	2	3										
CLO1/CO2	2	3										

Part A (3*5=15 Marks) [Answer ANY 3 questions]

Q.N	Question	Mar	C	P	В	PI
0		ks	O	0	L	Code
1	Write a program to illustrate the difference between arithmetic and relational operators in C.	5	1	2	3	2.6.3
2	Write the output of the program and justify the answer #include <stdio.h> int main() Downloaded by Madhav Gupta (mgups2002@gmail</stdio.h>	5 l.com)	1	2	3	2.6.3

3	Define an identifier. Mention the rules to create an identifier in C with relevant examples.	5	1	1	2	2.5.2
4	A drawing competition is organized during Diwali festival by an NGO. There are THREE groups (A, B & C) of participants. Amrita is interested in joining B group but confused about her eligibility criteria. Her age is 12. Can you clarify her doubt using a C program? Condition for eligibility Eligible for C group - if age >18 Eligible for B group - if age >=12 and <=18 Eligible for A group - if age <12.	5	2	2	3	2.6.3

Part B (1*10=10 Marks) [Either OR]

Q.N	Question	Mar	С	P	BL	PI Code
0		ks	O	O		
5	Outline the general structure of a 'C' program and explain with an example.	10	1	2	2	2.5.2
	(OR)					
6	In an interview a task is given to the candidates to compute addition, subtraction, multiplication, division and remainder. The two given integer values are 17 and 13. Condition given: int testnum1, testnum2; float div; Write a C program to solve this problem.	10	2	2	3	2.6.3

Quality Alignment Matrix (QAM)

Qn. No.	L1	L2	L3	L4
1			5	
2			5	
3		5		
4			5	
5		10		
6			10	
Total	0	15	25	0

L1+L2 = 15 Marks, 15/40 = 37.5% L3+L4 = 25 Marks, 25/40 = 62.5%

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



