



CT 1 Question Pater 1st

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



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Reg No: RA2211027010238

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-1: Think and evolve with a logic to construct an algorithm and pseudocode 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 X 1 Marks (MCQ)

| S.No. | Question | CO | PO | BL | Marks | PI CODE |
|-------|--|----|----|----|-------|---------|
| 1 | Every C program consists of _____ function(s). <ul style="list-style-type: none"> Only one Only two One or two One or many | 1 | 1 | 1 | 1 | 1.6.1 |
| 2 | Which of the following is not a correct variable type? <ul style="list-style-type: none"> Float Real Int Double | 1 | 2 | 1 | 1 | 2.5.2 |
| 3 | Which of the following is not a valid C variable name? <ul style="list-style-type: none"> int number; float rate; int variable_count; int \$main; | 1 | 2 | 1 | 1 | 2.5.2 |

| | | | | | | |
|---|---|---|---|---|---|-------|
| 4 | Which of these is NOT a relational or logical operator? <ul style="list-style-type: none"> = == != | 1 | 2 | 1 | 1 | 2.5.2 |
| 5 | What will be the output of the following code snippet? <pre>#include <stdio.h> int main() { int a = 3, b = 5; int t = a; a = b; b = t; printf("%d %d", a, b); return 0; }</pre> <ul style="list-style-type: none"> 3 5 3 3 5 5 5 3 | 1 | 2 | 1 | 1 | 2.5.2 |
| 6 | What is the output of the following code snippet? <pre>int main() { int sum = 2 + 4 / 2 + 6 * 2; printf("%d", sum); return 0; }</pre> <ul style="list-style-type: none"> 2 15 16 18 | 1 | 1 | 2 | 1 | 1.6.1 |
| 7 | What will be the output of the following code snippet? <pre>#include <stdio.h> int main() { int a = 3; int res = a++ + ++a + a++ + ++a; printf("%d", res); }</pre> <ul style="list-style-type: none"> 12 24 20 18 | 1 | 1 | 2 | 1 | 1.6.1 |

| | | | | | | |
|----|--|---|---|---|---|-------|
| 8 | Which of the following is true for variable names in C? <ul style="list-style-type: none"> • They can contain alphanumeric characters as well as special characters • It is not an error to declare a variable to be one of the keywords (like goto, static) • Variable names cannot start with a digit • Variable can be of any length | 1 | 1 | 1 | 1 | 2.5.2 |
| 9 | Operator % in C Language is called? <ul style="list-style-type: none"> • Percentage Operator • Quotient Operator • Modulus • Division | 1 | 1 | 1 | 1 | 1.6.1 |
| 10 | What will be the output of the following code snippet? <pre>void solve() { printf("%d ", 9 / 2); printf("%f", 9.0 / 2); }</pre> <ul style="list-style-type: none"> • 4 4.5000 • 4 4 • 4.500 4.500 • 4.5 4.50 | 1 | 2 | 1 | 1 | 2.5.2 |

Part- B: 5 X 2 Marks

| S.No. | Question | CO | PO | BL | Marks | PI Code |
|-------|--|----|----|----|-------|---------|
| 11 | Define keyword, constant and variable. | 1 | 1 | 2 | 2 | 2.6.3 |
| 12 | Why do we use header files? | 1 | 2 | 2 | 2 | 2.6.3 |
| 13 | What is variable? Give the rules for variable declaration. | 1 | 1 | 2 | 2 | 2.6.3 |
| 14 | Write a C program to check whether the person is eligible to vote. | 1 | 2 | 3 | 2 | 2.6.3 |
| 15 | Write a C program to find the largest of three numbers | 1 | 2 | 3 | 2 | 2.6.3 |

Part - C: 1 X 5 Marks

| S.No. | Question | CO | PO | BL | Marks | PI Code |
|-------|---|----|----|----|-------|---------|
| 16 | Write a program that prints the numbers 1 to 4 on the same line. Write the program using the following methods. a. Using one printf statement with no conversion specifiers. b. Using one printf statement with four conversion specifiers. c. Using four printf statements. | 1 | 1 | 3 | 5 | 2.6.3 |
| OR | | | | | | |
| 17 | Display the following checkerboard pattern with eight Printf statements and then display the same pattern with as few Printf statements as possible. <pre> *</pre> | 1 | 2 | 3 | 5 | 2.6.3 |

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

