QP Code: UV25DR005

Reg. No : .....
Name : .....

ST MARY'S COLLEGE (AUTONOMOUS), THRISSUR-20

I SEMESTER (FYVP)DEGREE REGULAR EXAMINATIONS, NOVEMBER 2025
B. Voc. Software Development
SFD1CJ101 : PROGRAMMING FUNDAMENTALS WITH C
2025 Admission Onwards

Time: 2 Hours **Maximum Marks: 60**

Section A

*Answer **all** questions. Each carries **2** Marks. **(Ceiling 20)***

1. Define token in C.
2. Define the term “portability” in C language.
3. Apply your knowledge to identify the output of a = 10 + 5 * 2.
4. Mention the difference between if and if–else.
5. What is the difference between if–else and switch?
6. Write a while loop to print the even numbers from 2 to 10.
7. What is recursion in C?
8. Write a C statement to input elements into a 2D array.
9. Write a C statement to declare a 3×3×3 integer array.
10. Write a short C program snippet declaring a static variable inside a function.
11. Compare structure variable initialization with array initialization.
12. Why is it important to use free() after memory allocation?

Section B

*Answer **all** questions. Each carries **6** Marks. **(Ceiling 30)***

13. Describe the syntax rules for writing identifiers and statements in C.
14. Describe the formatted input and output functions with syntax and examples.
15. Analyze the difference in control flow when using break and continue in loops.
16. Write a C program to read and display a string using gets() and puts().
17. Compare functions with and without return values using examples.

Turn Over

18. Evaluate the advantages of using file I/O operations compared to standard input/output.

Section C

*Answer **any One**. Each question carries **10** Marks.* ***(1X10=10 Marks)***

19. Write and explain a program to find the sum and average of array elements.
20. Explain in detail call by value and call by reference with syntax, example, and output.

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