

Reg.No:

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## SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)

Coimbatore – 641 035.

**B.E / B.Tech – Internal Assessment Exam- I**

**Academic Year 2024-2025 (ODD)**

**FIFTH SEMESTER (REGULATION R2019)**

**DEPARTMENT OF MECHATRONICS**

**19CST251 OBJECT ORIENTED PROGRAMMING USING C++**

**Time: 1<sup>1/2</sup> Hours**

**Maximum Marks: 50**

**Answer All Questions**

### **PART-A (5 x 2 = 10 Marks)**

- |    |                                                     |     |     |
|----|-----------------------------------------------------|-----|-----|
| 1. | What is meant by OOP?                               | CO1 | REM |
| 2. | List out the differences between data types in C++. | CO1 | REM |
| 3. | Write a snippet which prints “Hello World”.         | CO1 | REM |
| 4. | How does memory allocate in structures?             | CO2 | REM |
| 5. | Can we have objects without class? Justify.         | CO2 | ANA |

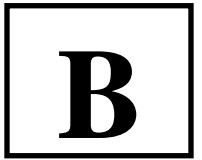
### **PART-B (2 X 13 + 1 x 14 = 40 Marks)**

- |    |                                                                             |     |     |    |
|----|-----------------------------------------------------------------------------|-----|-----|----|
| 6. | (a) Explain in detail about characteristics of object oriented programming. | CO1 | REM | 13 |
|    | (or)                                                                        |     |     |    |
|    | (b) Explain about various control statements with example.                  | CO1 | UND | 13 |
| 7. | (a) Explain working of constructor and its types with example.              | CO2 | UND | 13 |
|    | (or)                                                                        |     |     |    |
|    | (b) Write a C++ program for method overloading with example.                | CO2 | REM | 13 |
| 8. | (a) Write a C++ program to implement bank details.                          | CO1 | APP | 14 |
|    | (or)                                                                        |     |     |    |
|    | (b) Write a C++ program to implement a calculator.                          | CO1 | APP | 14 |

**Prepared by**

**Verified by**

**HoD**



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| 5. | Can we have objects without class? Justify.         | CO2 | ANA |

### PART-B (2 X 13 + 1 x 14 = 40 Marks)

- |    |                                                                             |     |     |    |
|----|-----------------------------------------------------------------------------|-----|-----|----|
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|    | (or)                                                                        |     |     |    |
|    | (b) Write a C++ program to implement a calculator.                          | CO1 | APP | 14 |

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