CBCS SCHEME

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BPLCK105D

# First Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025
## Introduction to C++ Programming

Time: 3 hrs. Max. Marks: 100

***Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.***
***2. M : Marks , L: Bloom's level , C: Course outcomes.***

| | | | M | L | C |
|---|---|---|---|---|---|
| | | **Module – 1** | | | |
| **Q.1** | **a.** | Describe the need for C++ programming language. | **10** | **L2** | **CO1** |
| | **b.** | Enumerate the basic structure of C++ program with example. | **10** | **L2** | **CO1** |
| | | **OR** | | | |
| **Q.2** | **a.** | Explain with example object and clear in OOPS. | **10** | **L2** | **CO1** |
| | **b.** | Explain with example Data Abstraction and Encapsulation in OOPS0. | **10** | **L2** | **CO1** |
| | | **Module – 2** | | | |
| **Q.3** | **a.** | Define the term keywords and identifier and also write the rules for defining identifiers. | **10** | **L2** | **CO2** |
| | **b.** | Write a C++ program to display sum of first natural 'n' Natural Numbers. | **10** | **L3** | **CO2** |
| | | **OR** | | | |
| **Q.4** | **a.** | Describe different data types in C++. | **10** | **L2** | **CO2** |
| | **b.** | Write a C++ program to find greatest of 3 numbers. | **10** | **L3** | **CO2** |
| | | **Module – 3** | | | |
| **Q.5** | **a.** | Define Constructor? What are the characteristics of constructor with example program? | **10** | **L2** | **CO3** |
| | **b.** | Write a C++ program to sort elements. | **10** | **L3** | **CO3** |
| | | **OR** | | | |
| **Q.6** | **a.** | Define Inheritance. Illustrate the different types of inheritance with flow chart. | **10** | **L3** | **CO3** |
| | **b.** | Write a C++ program to deconstruct function overloading. | **10** | **L3** | **CO2** |
| | | **Module – 4** | | | |
| **Q.7** | **a.** | Explain the stream class hierarchy with neat diagram. | **10** | **L2** | **CO4** |
| | **b.** | With a C++ program to copy the context of one file to another file. | **10** | **L3** | **CO4** |
| | | **OR** | | | |
| **Q.8** | **a.** | Explain the unformatted I/O operators. | **10** | **L2** | **CO4** |

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| | **b.** | Write a C++ program to applied "VTU" and "ELECTRICAL" texts to a file and display it on the monitor. | **10** | **L3** | **CO4** |
| | | **Module – 5** | | | |
| **Q.9** | **a.** | Illustrate exception in C++ program? And explain benefits of exception handling. | **10** | **L2** | **CO4** |
| | **b.** | Write a C++ program with function using try and Catch. | **10** | **L3** | **CO4** |
| | | **OR** | | | |
| **Q.10** | **a.** | Illustrate try, catch and throw with an example. | **10** | **L2** | **CO4** |
| | **b.** | Write a C++ program which handle array of bounds exceptions. | **10** | **L3** | **CO4** |

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