Seat No.

Total No. of Pages : 2

MAR_APR 2026 SUMMER EXAMINATION

11731 Bachelor of Technology (NEP-2.0)

Sub. Name: Object Oriented Programming(CSE)

Sub. Code: 119712/116039

Day and Date: Friday ,29-05-2026 **Total Marks: 60**

Time: 10:30 AM To 01:00 PM

Instructions: **1. Draw neat labelled diagrams wherever necessary**
2. Figures to the right indicate full marks

Special Inst.: **1.Questions 1 and 5 are compulsory.**
2.Wherever examples are asked write the complete code.
3. Answer any two questions from Q. No.2 to Q. No.4.

Q1) Solve any three questions from the following. **[15]**

a. Explain the key features of Object-Oriented Programming with suitable examples. **[5]**

b. Demonstrate the use of constructors and destructors with the help of example that shows object initialization and cleanup. **[5]**

c. Explain the problem of ambiguity in multiple inheritance and how it can be resolved in Object-Oriented Programming. **[5]**

d. Write a C++ program to demonstrate operator overloading. **[5]**

Q2) Solve the following questions. **[15]**

a. Demonstrate the use of C++ stream classes and show how to handle stream errors with a suitable example. **[8]**

b. Write a C++ program to perform file operations by reading from and writing data to a file. **[7]**

Q3) Solve the following questions. **[15]**

a. Implement a C++ program that uses re-throwing of an exception to handle errors. **[8]**

b. Illustrate the need for exception handling by implementing a program that handles runtime errors. **[7]**

Q4) Solve the following questions. **[15]**

a. Describe the concept of function templates in C++ with a suitable example. **[7]**

b. Examine the various types of STL containers and compare their features and use cases. **[8]**

Q5) Solve any three of the following questions. **[15]**

a. Explain the overloading of extraction (>>) and insertion (<<) operators in C++ with suitable examples. **[5]**

b. Demonstrate the use of inheritance in exception handling with example of derived exception classes. **[5]**

c. Explain the applications and advantages of the Standard Template Library(STL). **[5]**

d. Explain multiple catching. Write a C++ program to demonstrate multiple catching in exception handling. **[5]**

End Of Question Paper

Important Note for Chief Exam Officer / SRPD Coordinator / Sr Supervisor/ Student -
This Question Paper may be distributed for following Subjects as common code.
सदरची प्रश्नपत्रिका खालील विषयांकरिता वितरित करता येईल.

1] (11731) Bachelor of Technology (NEP-2.0) (116039) Object Oriented Programming(CSE) Part 2 SEM 4
2] (1154) B.Tech. CBCS (119712) Object Oriented Programming(CSE) Part 2 SEM 4

55755