

Unit IV

7. (a) List and briefly explain different file pointers available in C++. **10**
(b) Briefly illustrate different stream manipulators. **5**
8. What do you mean by an exception ? Explain the use of keywords hit, try, throw and catch. What is meant by rethrowing an exception ? Explain the syntax for rethrowing an exception. **15**

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Roll No.

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B. Tech. EXAMINATION, 2022

(Fifth Semester)

(C Scheme) (Main & Re-appear)

(CSE)

CSE301C

OBJECT ORIENTED PROGRAMMING

Time : 3 Hours]

[Maximum Marks : 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

Unit I

1. (a) Define a constructor. Write down the properties of constructors. Write down the syntax of different types of constructors available in C++. **10**
(b) Explain the significance of preprocessor directives. **5**
2. (a) Explain different steps for object oriented analysis. **5**
(b) Differentiate between public and private access specifiers. **5**
(c) Differentiate between structure and class. **5**

Unit II

3. (a) Explain the significance of new and delete operators. Write down the syntax of each of them. **8**
(b) List the properties of static members of class. Write a program to illustrate the use of static members in class. **7**

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4. (a) Define a friend function. With the help of suitable program illustrate the relevance of friend function. **8**
(b) Write a program to overload + and * operators for a class of complex numbers. **7**

Unit III

5. (a) Why inheritance is important in programming ? Explain different types of inheritance in C++. Write down the syntax of each of them. **10**
(b) What is the order of invoking of constructors in different types of inheritance ? **5**
6. (a) What is a virtual function ? Why is it required ? What is a pure virtual function ? **10**
(b) With suitable examples differentiate between inheritance and composition. **5**

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P.T.O.