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Roll No. :

322455(22)

B. E. (Fourth Semester) Examination, April-May 2021

(New Scheme)

(CSE Branch)

**OBJECT ORIENTED CONCEPTS &
PROGRAMMING using C++**

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Attempt all questions. Part (a) of each question is compulsory and carries 2 marks. Attempt any two parts from (b), (c) and (d) which carry 7 marks each.

Unit-I

1. (a) What is Data Hiding? 2
- (b) What is the difference between procedural oriented programming and object oriented programming? 7

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- (c) What is Class and Object? 7
- (d) Explain the following :
- (i) Encapsulation 3.5
- (ii) Polymorphism 3.5

Unit-II

2. (a) What do you mean by static data member? 2
- (b) Explain the following :
- (i) Hierarchy of console stream classes 3.5
- (ii) Use of console keyword 3.5
- (c) What is Friend Class? Explain with example. 7
- (d) Explain access specifiers with example. 7

Unit-III

3. (a) What is Pointer? 2
- (b) What is construction with its types and example? 7
- (c) Write a program in C++ to read two numbers from the keyboard and display larger value on the screen. 7

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- (d) What is this pointer with example? 7

Unit-IV

4. (a) Define type conversion in short. 2
- (b) Explain various types of inheritance. 7
- (c) What are the ambiguities in inheritance and how to resolve it? 7
- (d) Write a program to overload '+' operator to add two complex number. 7

Unit-V

5. (a) What is Template? 2
- (b) Explain early binding and late binding. 7
- (c) Explain virtual function with example. 7
- (d) Explain the concept of exception handling. 7

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