

**B.Tech. – VIEP – COMPUTER SCIENCE AND  
ENGINEERING (BTCSVI)**

**00424 Term-End Examination**

**June, 2018**

**BICS-003 : OBJECT ORIENTED PROGRAMMING**

*Time : 3 hours*

*Maximum Marks : 70*

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*Note : Attempt any **seven** questions. All questions carry equal marks.*

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1. (a) What is object oriented programming ?  
Explain object with an example. 5
- (b) Write a C++ program which will take three integers as input and find the largest among them. 5
2. What is inheritance ? What are its advantages ?  
Explain different types of inheritance in C++ programming, with suitable examples. 10
3. (a) What is public access specifier ? How is it different from private access specifier ?  
Explain briefly with an example. 5
- (b) What is virtual function ? Explain with an example. 5

4. Write a C++ program to overload “+” operator to perform addition of two complex numbers. 10
5. (a) What is a constructor ? Explain parameterized constructors with example. 5
- (b) What is friend function in C++ ? Explain with the help of a program. 5
6. Write a C++ program to create Account Class. Derive Saving\_Account class and Current\_Account class from Account class. Define proper constructors for all the three classes. Also define the method to display account balance in Saving\_Account class and Current\_Account class. 10
7. (a) What is encapsulation ? Why is it important in C++ ? 5
- (b) Write a C++ program to find the factorial of a given number. 5
8. (a) What is an exception ? Explain how an exception is handled in C++ with the help of an example program. 7
- (b) Explain static class in C++. 3
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