B.C.A Sem-3 Examination October/November 2018
Subject Code: 20632
Object Oriented Programming with C++

Total: 70 Marks   **Time: 2 ½ Hrs**

Q – 1   **Answer the following questions.**
1. What do you mean by OOP? Explain basic concept of OOP.   07
2. Explain Memory Management Operator and Default Argument with example.   07

OR

Q – 1   **Answer the following questions.**
1. Define terms of Class, Object, Abstraction and Encapsulation with example.   07
2. Explain Function Overloading with example.   07

Q – 2   **Answer the following questions.**
1. What is Friend function? Explain in detail.   07
2. Write a short note on Constructor and explain Parameterized Constructor with example.   07

OR

Q – 2   **Answer the following questions.**
1. Explain Destructor in detail and also give difference between Constructor and Destructor.   07
2. Explain: Inline Function   07

Q – 3   **Answer the following questions.**
1. Explain Operator Overloading with Binary operator overloading.   07
2. Explain Static data member & Static member function with example.   07

OR

Q – 3   **Answer the following questions.**
1. Explain Unary operator overloading using friend function with example.   07
2. Write a detail note on Type Casting with any one type's of example.   07

Q – 4   **Answer the following questions.**
1. What is Inheritance? List out types of Inheritance. Explain Multiple Inheritance with proper example.   07
2. How can we call constructor in derived class? Explain with example.   07

OR

Q – 4   **Answer the following questions.**
1. Discuss Virtual Base Class concept in detail.   07
2. What do you mean by Inheritance? Explain Hierarchical Inheritance with example.   07

Q – 5   **Answer the following questions.**
1. What is Polymorphism? Explain Runtime Polymorphism with example.   07
2. Discuss 'this' pointer in detail.   07

OR

Q – 5   **Answer the following questions.**
1. Explain Pointer to function with example.   07
2. Write a C++ program to implement the concept of Array of Object.   07