

No. of Printed Pages : 03

Roll No.

D215

B.C.A. EXAMINATION, May 2019

(Fourth Semester)

(B. Scheme) (Main & Re-appear)

(BCA)

BCA210B

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.

(3-06/9) M-D215

P.T.O.

Unit I

1. (a) Explain the of object oriented approach. Explain, how object oriented approach is different from procedural approach.
(b) How does composition help facilitate encapsulation ? **5**
2. Write a program in C++ using structure and array to display the Name, Class and Average marks of three subjects of each students. Assume there is 10 students in a class. **15**

Unit II

3. What is class and objects ? Explain the access specifier in C++ with suitable example. **15**
4. What is Constructor ? Explain, how constructor is overloaded, Also explains Copy Constructor with suitable example. **15**

Unit III

5. Define Virtual Function ? Explain the rules to define the virtual functions. What is the benefit of using virtual function with example ? **15**

6. What do you mean by inheritance ? Explain the types of inheritance with example. **15**

Unit IV

7. What is Template Classes ? Explain, how template function is declared ? Write a program to create function template that returns the maximum of two values. **15**
8. Explain difference between Binary File and Text File. Write a C++ program to open and close a particular file. **15**