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Roll No.

D-215

B.C.A. EXAMINATION, May 2018

(Fourth Semester)

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

OBJECT ORIENTED PROGRAMMING

BCA210B

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.

Unit I

1. (a) What do you mean by programming paradigm ? Discuss how the object Oriented Programming approach is different from the procedure oriented programming approach ? **10**
(b) Explain the structure of C++ program. **5**
2. Explain the following :
 - (a) Data abstraction
 - (b) Dynamic binding
 - (c) Message Passing. **15**

Unit II

3. (a) What do you mean by the dynamic initialization of objects ? Why do we need to do this ? How is dynamic initialization of objects achieved ? **10**
(b) Describe the importance of destructors. **5**
4. What is Constructor ? How do we invoke a constructor function ? List some of the special properties of constructor functions and discuss the different types of constructors. **15**

Unit III

5. Explain the following with example : **15**
 - (a) Operator overloading
 - (b) Function overloading
6. Write short notes on the following : **15**
 - (a) Virtual functions
 - (b) The pointer
 - (c) Inheritance.

Unit IV

7. What is standard template library ? How is it different from the C++ standard library ? Why is it gaining importance among the programmers ? Explain the components of Standard template library in detail. **15**
8. Write short notes on the following :
 - (a) Exception handling mechanism
 - (b) File pointers
 - (c) Class templates. **15**