

Roll No.

97641

BCA 4th Semester (New) 2011-12

Examination – May, 2013

OBJECT ORIENTED DESIGN & PROGRAMMING

Paper : BCA-208

Time : Three hours]

[Maximum Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt any five questions. All questions carry equal marks.

1. (a) What is OMT ? How it is useful and used ?
Discuss with an example. 8
- (b) Discuss differences, uses and advantages of
Union and Structure with suitable examples. 8
2. Explain the following briefly with suitable C++
examples : 16
 - (i) Polymorphism, its types, and advantages with
C++ codes,
 - (ii) User defined data types and their advantages.

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3. (a) What is JSD ? How it is useful and used ? Explain with suitable examples. 8
(b) Discuss inheritance, its types and advantages with suitable C++ examples. 8
4. Describe the following with suitable C++ examples : 8 each
(i) Static members and Abstract data types,
(ii) Constructors, destructors and their advantages.
5. (a) What is exception handling ? How is it used and useful in C++ ? Explain with examples. 8
(b) Write a C++ code segment to overload binary minus (-) and unary plus (+) operators. 8
6. Explain the following with C++ examples : 16
(i) Friend and Inline functions and their advantages,
(ii) New, Delete and object copying in C++.
7. (a) What are template functions ? How these are useful and used ? Discuss with suitable examples with C++ codes. 8
(b) Discuss advantages of object-oriented modelling with examples. 8
8. Explain the following with C++ examples : 16
(i) Role and advantages of classes in design of business software development,
(ii) JSD and its advantages.