

Roll No.

24164

**B. Tech. 4th Semester (Information
Technology/C.E.E./Common to these
Branches)**

Examination – May, 2011

OBJECT ORIENTED PROGRAMMING USING C++

Paper : IT-202-F

Time : Three hours]

[Maximum Marks : 100

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 *five* questions in all. Question No. 1 is *compulsory*. Attempt *one* question from each Section. All questions carry equal marks.

COMPULSORY QUESTION

1. Explain the following with suitable illustration :
 - (a) Pre-processor directives
 - (b) Function overload
 - (c) Virtual Destructors
 - (d) Stream manipulators

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SECTION – A

2. What is object oriented programming ? How it is different from procedural programming ? What are the major characteristics of a OOP language ?
3. (a) What do you mean by access specifier ? Explain its various types.
(b) What do you mean by library files ? What is their role in C++ with suitable examples ?

SECTION – B

4. Explain the meaning and concept of the following :
 - (a) Dynamic memory allocation
 - (b) This pointer
5. Write short notes on the following with suitable illustration in C++ :
 - (a) Constructor
 - (b) Proxy classes

SECTION – C

6. What do you mean by operator overloading ? What are various restrictions in operator overloading ? Write a program in C++ to overload binary operator.

7. What do you mean by virtual function ? What is their importance ? Write a program in C++ to show how virtual functions work.

SECTION – D

8. What do you mean by Exception Handling ? How exceptions are handled in C++ ? Explain with suitable examples.
9. Write a program in C++ to create a sequential files and reading it sequentially.
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