Reg. No. : ....

Name : ....

Fourth Semester B.Tech. Degree Examination, July 2015
(2008 Scheme)
08.404 : OBJECT ORIENTED TECHNIQUES (RF)

Time : 3 Hours

Max. Marks : 100

PART – A

Answer **all** questions.

1. In OOPs, objects are members of class. Discuss.

2. Assuming temp starts with the value 40, what will the following code fragment print out ?

    Discuss your answer

    cout << temp--;

    cout << ++temp;

3. Explain scope resolution operation with suitable examples.

4. Discuss default function arguments.

5. Explain how an object is created and destructed in C++.

6. Explain the purpose of the term 'this' in C++.

7. What is function overriding ?

8. Discuss virtual functions.

9. What is data conversion in C++ ?

10. What is polymorphism ?

(10×4=40 Marks)

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PART – B

Answer **any one** question from **each** Module.

Module – I

11. a) Describe the difference among passing an array to a function by using call by value, call by address and using call by reference by writing the relevant C++ code. **10**

b) Distinguish between the following terms : **10**
   i) References and pointers.
   ii) Data abstraction and data encapsulation.

OR

12. a) Write a comparison between the following concepts. **10**
   Static members and protected members.

b) Explain how a member function is defined in C++. Discuss with examples. **10**

Module – II

13. a) In C++, how does a static member function differs form the other member functions ? Explain with suitable examples. **10**

b) What is dynamic constructor ? Explain with an example. **10**

OR

14. a) Write a C++ program to perform multiplication between an integer and complex number object using friend operator function. Why can't we use member operator function in this case ? **12**

b) Explain public and private inheritance with examples. **8**

Module – III

15. a) What is inheritance ? What are its benefits ? What are different types of inheritance ? Give an example for each type that will fit in their structure. **12**

b) Explain unary operator overloading with examples. **8**

OR

16. a) Describe the various classes available for file operations. **10**

b) What is virtual base class ? When do we make a class virtual ? Explain with examples. **10**

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