

MCSE/MSE - 104
M.E./M.Tech., I Semester
Examination, December 2014
Object Oriented Technology
Time : Three Hours
Maximum Marks : 70
<http://www.rgpvonline.com>

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

1. a) Discuss the role of cardinality in the development of an object relationship model?
Explain with example. 7
- b) What are the different approaches for analysis that are relevant to object oriented systems. 7
2. a) How do object oriented design and structured design differ?...What aspects of these two design methods are the same?
- b) What is containment or delegation? How does it differ from inheritance? 7
- 3 a) Draw object diagram for Information Management System (IMS) of the university. 7
- b) Explain aggregation and association with suitable examples. 7
4. a) What is an interaction diagram? Explain the steps involved in drawing such a diagram with the help of example. 7
- b) Describe the various kinds of relationship exists between classes with examples. 7
5. a) Create a global non member function that has a base class pointer as its formal argument. Call member functions of the base class through the pointer from within this function. Now call the function by passing addresses of the derived class objects. 7
- b) What is a virtual function? When is it needed? Write a program to find out whether a virtual function can be a friend of another class. 7
6. a) Describe how the contents of a disk file can be randomly accessed in C++. 7
- b) Discuss briefly the architecture of object oriented databases. 7
7. a) What is object query language? Explain with an example. 7
- b) What is the meaning of nested transactions, in object oriented database management system. Discuss various operations used in nested transaction. 7
8. Write short notes: 14
 - i) Distributed object oriented system
 - ii) CORBA
 - iii) Gemstone
 - iv) Object Management Group