

rgpvonline.com MCSE/MSE - 104  
M.E./M.Tech., I Semester  
Examination, December 2015  
Object Oriented Technology

Time : Three Hours

Maximum Marks : 70

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

1. a) What is meant by Object-Oriented modeling and design? Also differentiate it with structured approach.  
b) Explain Aggregation and Generalization with suitable example and sketch.
2. What are various Object Oriented Languages? Explain any two showing some characteristics of OOT like Polymorphism, Abstraction, Encapsulation, Inheritance etc. by suitable example and sketch if any.
3. a) What do you mean by term Link? Differentiate it by Association using suitable example and sketch if any.  
b) Describe the term Object Modeling. Also explain Booch Methodology using proper example.
4. a) Which operator is used to access a class member with respect to a pointer? Elaborate your answer using C++ programming features.  
b) Describe the two ways in which a member function can be declared as an inline function. Take suitable example in C++.

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5. a) What is a virtual function? When it is needed? Also explain the call resolving process by a compiler to a virtual function.  
b) What are command line arguments? Why are they important? Justify your answer with proper example.
6. a) Explain the architecture of Object Oriented Database; also focus your attention on its main features and applications.  
b) Differentiate between Object Oriented Database and Relational Database.
7. a) What are Query languages for Object Oriented Database? Elaborate your answer using suitable example.  
b) Briefly describe Distributed Object Oriented system by taking at least one suitable example.
8. a) What do you mean by Common Object Request Broker Architecture (CORBA)? Explain using proper example.  
b) Describe Virtual Function by suitable example.

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