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MCSE/MSE-104

M.E./M.Tech. I Semester

Examination, June 2017

Object Oriented Technology

Time : Three Hours

Maximum Marks : 70

Note: i) Answer any five questions, each question carries equal marks.

ii) Assume suitable data if missing.

1. a) What are the merits and demerits of object oriented approach? Explain the concept of encapsulation with proper example.

   b) Define aggregation. How it is useful to design the relationships between objects. Explain in brief.

2. a) What is the role of cardinality in the development of object relationship model? Explain with example.

   b) Describe the functionalities of the different models in OMT methodology.
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3. a) Describe the role of abstract class in object oriented design. Also, define pure virtual function.

   b) What are constraint specifications? How you specify constraints in object oriented design and what are the advantages of constraint specifications?

4. a) List the types of inheritances. Write a C++ program to implement single inheritance with public access specific.

   b) Write a program to find the length of string using operator overloading?   www.rgpvonline.com

5. a) Explain the architecture of object oriented database with example.

   b) Differentiate between object oriented database and relational database.

6. a) List the major differences in C++ and JAVA programming language in terms of the followings:

      i)   Program structure

      ii) Compilation

      iii) Run time

   b) What is object query language? Explain with example.

7. a) Describe the architecture of CORBA in detail.

   b) Justify the need of middleware standards. Explain them in brief.
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8. a) Compare COM+ with DCOM with suitable example.

   b) Write a brief note on Gemstone/O2/orion Object database.

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