Roll No .....

IT - 701

B.E. VII Semester

Examination, December 2015

Object Oriented Analysis And Design

Time : Three Hours

Maximum Marks : 70

Note: i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.

ii) All parts of each questions are to be attempted at one place.

iii) All questions carry equal marks, out of which part A and B (Max.50 words) carry 2 marks, part C (Max.100 words) carry 3 marks, part D (Max.400 words) carry 7 marks.

iv) Except numericals, Derivation, Design and Drawing etc.

Unit- I

1. a) Define multiple inheritance.
   b) What is abstraction?
   c) Define polymorphism.
   d) Explain the different among bidirectional, unidirectional and reflexive association.

OR

What is unified process model? Explain the iteration, outcomes and workflow in unified process model with neat diagram.

Unit - II

2. a) Compare OOAD and SSAD.
   b) Discuss data flow diagram.
   c) Define state diagram.
   d) Describe in detail different view in Booch methodology. Compare with the model in OMT methodology.

OR

How do you develop an object oriented system development life cycle? Discuss all the phases related to object oriented approach.

Unit - III

3. a) Define abstract use case.
   b) Mention the design axioms applied to object oriented design.
   c) State the need for identifying the relationship between objects.
   d) Briefly explain the object oriented design process in the unified approach and apply the same for a railway reservation system.

OR

State the corollaries derived from the design axioms and explain how they could be applied to actual situation.

Unit - IV

4. a) List out the characteristic of an object oriented methodology.
   b) How can you achieve high quality software.
   c) How will you document event specification.
   d) Discuss the comparison of object oriented language like C++, Java.

OR

Compare sequence verses collaboration diagram.

Unit-V

5. a) Differentiate between an actor and a use case.
   b) Name the UML diagram used for modeling behavior of an object.
   c) Describe the activities involved in an ATM transaction.
   d) Illustrate the different diagram of UML with an example for each.

OR

Describe how class diagram, object diagram and generalization is represented with UML diagram.

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