Code No: 56028

R09

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech III Year II Semester Examinations, May - 2016
OBJECT ORIENTED ANALYSIS AND DESIGN
(Computer Science and Engineering)

Time: 3 hours

Max. Marks: 75

Answer any five questions
All questions carry equal marks
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1.a) Explain the essential features of object oriented paradigm.
  b) Describe the conceptual model of the UML in detail.
  [8+7]

2.a) Why is it necessary to have a variety of diagrams in a model of a system? Which UML diagrams give a static view and which give a dynamic view of a system?
  b) What is an interface? How is it represented in UML? What way does it help in developing an Object Oriented system?
  [8+7]

3.a) What are the properties of a well-structured diagram? Explain.
  b) Briefly explain the following relationships with UML notation:
  i) Realization
  ii) Generalization
  iii) Simple aggregation
  iv) Composite aggregation
  v) Reflexive association.
  [5+10]

4.a) What are interaction diagrams? What are their contents and common properties? Define semantic equivalence between two kinds of interaction diagrams.
  b) Enumerate the steps to model flows of control by time ordering.
  [8+7]

5.a) What are the common uses of use case diagrams? Consider any two modeling issues and draw relevant use case diagrams. Explain briefly.
  b) What are the contents and common uses of activity diagrams? Explain.
  [8+7]

6.a) Define the following and give their representation in UML.
  i) State   ii) Event   iii) Transition
  b) Enumerate the steps to model processes and threads.
  [9+6]

7. Specify the steps to model the following. Illustrate UML diagrams and explain.
  a) Modeling processes and devices.
  b) Modeling distribution of components.
  [8+7]

8.a) Draw the use case and activity diagrams for unified library application and explain.
  b) What are the packages in the unified library system? Explain.
  [8+7]

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