R15

Code No: 126VQ

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech III Year II Semester Examinations, May - 2019
OBJECT ORIENTED ANALYSIS AND DESIGN
(Common to CSE, IT)

Time: 3 hours   **Max. Marks: 75**

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A
                                                                        (25 Marks)

1.a)   What is a model?   [2]
  b)   Outline about the Behavioral things.   [3]
  c)   Define stereotypes and constraints.   [2]
  d)   What is a class diagram?   [3]
  e)   What are Interaction diagrams?   [2]
  f)   What is usecase?   [3]
  g)   Define components.   [2]
  h)   Explain about node with neat sketch.   [3]
  i)   List out the available diagrams of UML.   [2]
  j)   Mention the usecases for library management system.   [3]

PART - B
                                                                        (50 Marks)

2.a)   Explain about object oriented modeling.
  b)   Write a short note on Annotational things.   [5+5]
                                OR
3.a)   State the significance and importance of UML.
  b)   Discuss about principles of modeling.   [5+5]

4.a)   Write about structural diagrams in details.
  b)   Explain advanced relationships.   [5+5]
                                OR
5.a)   Discuss about modeling techniques for object diagrams.
  b)   Contrast is-a relationship with has-a relationship.   [5+5]

6.a)   Explain common modeling techniques of collaboration diagram.
  b)   Illustrate Forking and Joining with suitable examples.   [5+5]
                                OR
7.a)   Explain common modeling techniques of usecase diagram.
  b)   Illustrate swimlanes and object flow in Activity Diagram.   [5+5]

8.a) Explain about component diagram with an example.
   b) Write common uses of component diagram. [5+5]

OR

9.a) Discuss about modeling tables, files and documents with neat sketch.
   b) What is the content and uses of deployment diagram? [5+5]

10.a) Define class and usecase? Construct class diagram for library management system.
   b) Compose the Interaction diagram for check out item usecase of library application. [5+5]

OR

11.a) Differentiate between patterns and framework.
   b) Draw the deployment diagram for library application. [5+5]

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