R13

Code No: 126EQ

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
B. Tech III Year II Semester Examinations, May - 2016
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 an artifact?	[2]
b)	What are the adornments in the UML?	[3]
c)	What is navigation?	[2]
d)	Explain the levels of visibility.	[3]
e)	What is use case diagram?	[2]
f)	What are interaction diagrams?	[3]
g)	What is a component?	[2]
h)	What is a deployment diagram?	[3]
i)	What are the common uses of deployment diagrams?	[2]
j)	What are the three kinds of components?	[3]

PART - B

(50 Marks)

2.a) What are behavioral things? Explain.
b) What is UML? Where can the UML to be used? [5+5]

OR

3.a) What are the principles of modeling? Explain.
b) Draw the architecture of a software-intensive system and explain. [5+5]

4.a) What are the various kinds of Classifiers? Explain.
b) How to model the seams in a system? [5+5]

OR

5.a) Explain about generalization with an example.
b) Describe interfaces, types and roles with examples. [5+5]

6.a) Explain about use cases and actors and use cases and flow of events.
b) How to model a flow of control? [5+5]

OR

7.a) Explain sequence diagram with suitable example.
b) How to model the requirements of a system? [5+5]

8.a) Explain the following:
i) History states
ii) Time and space
b) How to model an API? [5+5]

OR

9.a) How to model an embedded system?
b) Differentiate the following:
i) Components and classes
ii) Nodes and components. [4+6]

10. Explain the following:
a) Patterns and architecture
b) Modeling an executable release. [5+5]

OR

11. Draw the following diagrams for the unified library application:
a) Class diagrams
b) Interaction diagrams. [5+5]

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