R17

Code No: 843AD

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA III Semester Examinations, December - 2019
OBJECT ORIENTED ANALYSIS AND DESIGN USING UML

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

Note: This question 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

5 × 5 Marks = 25

1.a) Discuss about requirement analysis in SDLC. [5]
b) Explain about packages in OOAD. [5]
c) What is the use of deployment diagram? Justify. [5]
d) Illustrate the role of events and signals. [5]
e) Explain about the France work. [5]

PART - B

5 × 10 Marks = 50

2. Discuss the importance of UML. Explain the architectural diagram of UML. Briefly explain various aspects of UML. [10]

OR

3. Mention the various models in Object modelling techniques and their role for describing the system. [10]

4. Explain the following Common Modelling Techniques for Class Diagram:
a) Modelling Simple Collaborations
b) Modelling a Logical Database Schema. [10]

OR

5. What are the relationships that can be defined among classes? Explain the context of their usage with suitable examples. [10]

6. Draw a use case diagram that depicts the context of a credit card validation system. Enumerate the steps to model the context of a system. [10]

OR

7. Discuss the differences between collaboration and sequence diagrams. Draw a sequence diagram for withdrawing money from an ATM and convert the same to a collaboration diagram. [10]

8. Distinguish between activity and state chart diagrams. What is meant by a deployment diagram? Discuss how to develop it. [10]

OR

9. Describe the common properties, uses and contents of component diagram. [10]

10. Discuss on artifact diagrams with a real time example. [10]

OR

11. Draw and explain the clam diagram of library information system. [10]