R15

Code No: 823AB

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
MCA III Semester Examinations, January - 2018
OBJECT ORIENTED ANALYSIS AND DESIGN USING UML

Time: 3hrs   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

5 × 5 Marks = 25

1.a) Define OOAD? Mention the   properties of OOAD.   [5]
  b) Name all types of OOAD diagrams.   [5]
  c) What are the duties of interaction diagram?   [5]
  d)   Differentiate process and Thread.   [5]
  e)   What is a framework?   [5]

PART - B

5 × 10 Marks = 50

2. Explain the various phases of software development life cycle.   [10]

OR

3. What are the common mechanisms in the UML? State and explain various object oriented concepts.   [10]

4. Distinguish between collaboration and sequence diagrams. Discuss about polymorphism in collaboration diagrams.   [10].

OR

5. What are the common modeling techniques for class diagram? Explain with an example.   [10]

6. What are interaction diagrams? Discuss their significance and common modeling techniques.   [10]

OR

7. Discuss about capturing of use cases, design and implementation to realize the use cases.   [10]

8. What is the relationship between a component and a node? Discuss the common modeling techniques of component diagrams.   [10]

OR

9. Contrast action with activity. Define state and event. What are the various parts of a state? Explain briefly.   [10]

10. Explain in detail about the artifacts diagrams with an examples.   [10]

OR

11. Draw the use case diagram and write use case descriptions of the Unified Library application.   [10]

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