

R13

Code No: 126EQ

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

B. Tech III Year II Semester Examinations, October/November - 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) Discuss the importance of modeling. [2]
- b) Explain the structural things in UML. [3]
- c) Distinguish between interface and class. [2]
- d) Discuss various uses of object diagram. [3]
- e) Explain with an example how to depict an asynchronous message. [2]
- f) Distinguish between action state and activity state. [3]
- g) Distinguish signals and active classes. [2]
- h) How to model life time of an object? [3]
- i) What is meant by framework? [2]
- j) Discuss the significance of patterns. [3]

PART - B**(50 Marks)**

2. State and explain the common mechanisms in the UML. [10]
- OR**
3. Discuss about modeling a systems architecture. [10]
 4. Discuss how classes can be used for modeling the non software things and modeling primitive types. [10]
- OR**
5. Explain with an example about modeling structured relationships. [10]
 6. Explain with an example how to model flow of control by time and flow of control by organization. [10]
- OR**
7. How to model requirements of a system. Explain with an example. [10]
 8. What is meant by state machine? Discuss about sequential substates and history states with an example. [10]
- OR**
9. Explain about communication and synchronization with a suitable example. [10]
 10. Discuss about artifact diagrams. [10]
- OR**
11. Write the class diagram for the university library application. [10]

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