

Code No: 126EQ**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech III Year II Semester Examinations, December - 2017****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)**

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| 1.a) | What is UML? | [2] |
| b) | Explain annotational things. | [3] |
| c) | Define class with neat sketch. | [2] |
| d) | What is relationship? List the types of relationships? | [3] |
| e) | What is an Usecase? | [2] |
| f) | Write the common uses of class diagram. | [3] |
| g) | Write about event. | [2] |
| h) | Define action states and activity states. | [3] |
| i) | Mention usecase in Library Management system. | [2] |
| j) | List out all diagrams in UML. | [3] |

PART - B**(50 Marks)**

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|-----------|---|-------|
| 2.a) | Explain in detail about SDLC. | |
| b) | Summarize common mechanisms in UML. | [5+5] |
| OR | | |
| 3.a) | Explain about the UML architecture. | |
| b) | Show basic blocks of the UML. | [5+5] |
| 4.a) | Discuss common modeling techniques of class diagram. | |
| b) | Explain about structural diagrams. | [5+5] |
| OR | | |
| 5.a) | Discuss about types and roles. | |
| b) | Define an object. Mention common uses of objects. | [5+5] |
| 6.a) | Explain the following: | |
| | i) Links ii) Messages | |
| b) | Discuss Interaction diagrams. | [6+4] |
| OR | | |
| 7.a) | Explain common modeling techniques of sequence diagram. | |
| b) | Explain the following with an example: | [4+6] |
| | i) usecase ii) Actor iii) flow of events | |

- 8.a) Explain about modeling interprocess communication.
b) Compose the state chart diagram for unified library application. [5+5]
- OR**
- 9.a) What are components? Show the stereotypes that apply to components.
b) Explain about Deployment diagram with an example. [5+5]
- 10.a) Construct usecase diagram for the Library application.
b) Distinguish between patterns and frameworks. [5+5]
- OR**
- 11.a) Draw the interaction diagram for login usecase in library application.
b) Compose the activity diagram for library application. [5+5]

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