

Code No: 136DC

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**B. Tech III Year II Semester Examinations, May - 2019****OBJECT ORIENTED ANALYSIS AND DESIGN****(Information Technology)****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 a stereotype? | [2] |
| b) | What are semantic rules of UML? | [3] |
| c) | What are stereotypes used in packages? | [2] |
| d) | Write about stereotypes used in dependency relationship. | [3] |
| e) | Describe extend stereotype. | [2] |
| f) | Explain about collaboration diagrams. | [3] |
| g) | Define sequential substate. | [2] |
| h) | Explain about modeling exceptions. | [3] |
| i) | What is a framework? | [2] |
| j) | Describe two ways to show up mechanisms. | [3] |

PART - B**(50 Marks)**

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|-----------|--|-------|
| 2.a) | What are relationships used in the UML? Explain. | |
| b) | Explain about artifacts of software-intensive systems. | [5+5] |
| OR | | |
| 3.a) | Discuss about grouping and annotational things with examples. | |
| b) | What are extensibility mechanisms of UML? Explain. | [5+5] |
| 4.a) | Explain modeling the vocabulary of a system with example. | |
| b) | What are four adornments of association relationship? Explain. | [5+5] |
| OR | | |
| 5.a) | How to model different levels of abstractions? Explain. | |
| b) | Explain about modeling groups of elements with example. | [5+5] |
| 6.a) | What is usecase? How to organize usecases? Explain. | |
| b) | Explain about modeling flows of control by organization. | [5+5] |
| OR | | |
| 7.a) | Distinguish between sequence and collaboration diagrams. | |
| b) | Explain about modeling a flow of control with example. | [5+5] |

- 8.a) Explain about modeling source code with example.
b) Discuss about modeling executables and libraries. [5+5]

OR

- 9.a) Explain about state chart diagrams in detail.
b) Discuss in detail about time and space with examples. [5+5]

10. Explain the following:
a) Patterns and architecture
b) Sequence diagrams for Unified Library application. [5+5]

OR

- 11.a) Explain class diagrams for Unified Library application.
b) Write about the Artifact diagrams. [5+5]

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