

ADITYA ENGINEERING COLLEGE (A)

B.Tech – VI Semester End Examinations Supplementary (AR19) – AUG 2022

OBJECT ORIENTED ANALYSIS AND DESIGN
(Common to CSE & IT)**Time: 3 hours****Max. Marks: 60****Answer ONE question from each unit****All Questions Carry Equal Marks****All parts of the questions must be answered at one place only****UNIT – I**

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|-----------|---|---|----|-----|-------|
| 1 | a | Explain about Conceptual model of UML. | K2 | CO1 | [6M] |
| | b | Explain the principles of modelling. | K2 | CO1 | [6M] |
| OR | | | | | |
| 2 | | Discuss clearly about different Building Blocks of UML. | K3 | CO1 | [12M] |

UNIT – II

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|-----------|---|---|----|-----|------|
| 3 | a | Draw and explain the class diagram for an ATM bank system. | K3 | CO2 | [6M] |
| | b | What is a nature of Class and Object? Explain how to identify Classes and Objects with suitable Examples. | K2 | CO2 | [6M] |
| OR | | | | | |
| 4 | a | Discuss common modeling techniques of class diagram. | K3 | CO2 | [6M] |
| | b | Define an object. Mention common uses of objects. | K2 | CO2 | [6M] |

UNIT – III

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|-----------|---|---|----|-----|------|
| 5 | a | What is meant by usecase? Explain about use case description with an example. | K2 | CO3 | [6M] |
| | b | Explain about fork and join concepts in activity diagram with an example. | K2 | CO3 | [6M] |
| OR | | | | | |
| 6 | a | State and explain the common modeling techniques of usecase diagrams. | K2 | CO3 | [6M] |
| | b | Illustrate interaction diagrams in UML. | K3 | CO3 | [6M] |

UNIT – IV

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|-----------|---|---|----|-----|------|
| 7 | a | Define an event and a signal. Explain briefly about the common modeling techniques of events and signals. | K2 | CO4 | [6M] |
| | b | Describe components of State Chart diagram with example. | K3 | CO4 | [6M] |
| OR | | | | | |
| 8 | a | Discuss about Timing Mark, Timing Expression and Timing Constraint. | K3 | CO4 | [6M] |
| | b | Compose the state chart diagram for unified library application. | K3 | CO4 | [6M] |

UNIT – V

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|-----------|---|---|----|-----|------|
| 9 | a | Draw a component diagram for an online shopping system. | K3 | CO5 | [6M] |
| | b | Explain the purpose of Deployment diagrams. | K2 | CO5 | [6M] |
| OR | | | | | |
| 10 | a | What are components? Show the stereotypes that apply to components. | K3 | CO5 | [6M] |
| | b | Explain about Deployment diagram with an example. | K2 | CO5 | [6M] |
