

17630

16117

3 Hours / 100 Marks

Seat No.

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- Instructions* – (1) All Questions are *Compulsory*.
(2) Answer each next main Question on a new page.
(3) Figures to the right indicate full marks.
(4) Assume suitable data, if necessary.
(5) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. **Attempt any FIVE of the following:** **20**
- a) Give three models of OO methodology.
 - b) Give the use of generalization in class modelling.
 - c) Explain the notations used in use case diagrams.
 - d) Draw the state chart diagram for ATM.
 - e) Explain how nodes communicate in deployment diagram.
 - f) Draw the deployment diagram for login form.
2. **Attempt any TWO of the following:** **16**
- a) Explain the concept of metadata and constraints on object.
 - b) Draw the use case diagram for railway reservations system.
 - c) Explain the concept of join and fork with example.

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- 3. Attempt any FOUR of the following:** **16**
- a) Explain the principles of modelling.
 - b) Explain how to create objects and classes.
 - c) How to create and destroy messages in sequence diagram?
 - d) Draw the activity diagram for hospital management system.
 - e) Explain the notations used in state diagram.
 - f) Draw the component diagram for customer login for railway reservation form.
- 4. Attempt any TWO of the following:** **16**
- a) Give propagation of operations.
 - b) Draw use case diagram for hotel management system.
 - c) Explain how multiple tasks are performed in swim lane diagram.
- 5. Attempt any FOUR of the following:** **16**
- a) Explain the UML architecture.
 - b) Explain the concept of values and attributes.
 - c) Explain system boundaries for use case diagram.
 - d) Explain actions and activity node concept in activity diagram.
 - e) Explain composite state diagram.
 - f) Explain node instances of deployment diagram with example.
- 6. Attempt any TWO of the following:** **16**
- a) Give the importance of modelling in Rumbaugh model.
 - b) Differentiate between aggregation and association.
 - c) Explain loop control in sequence diagram.
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