

Total No. of Questions : 4]

SEAT No. :

P8469

[Total No. of Pages : 2

Oct-22/BE/Insem-47

B.E. (Computer Engineering)

OBJECT ORIENTED MODELING & DESIGN

(2019 Pattern) (Semester - VII) (410244D) (Elective - III)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates :

- 1) Answer Q1 or Q2, Q3 or Q4.
- 2) Neat diagrams must be drawn whenever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data, if necessary.

- Q1)** a) Explain element of a class diagram with examples. [6]
- b) What do you mean by Association class? [4]
- c) Explain different Relations in UML. [5]

OR

- Q2)** a) What are different type of analysis classes? Explain with an example. [6]
- b) How you model class & object in UML? [4]
- c) Draw a class diagram for ATM system. [5]

- Q3)** a) Explain following : [5]
- i) Composite state
 - ii) Self transition orthogonal states with respect to state chart diagram.
- b) Draw state diagram with composite states from ATM card reading & authentication system. [5]

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- c) Explain terms : [5]
- i) Aggregation
 - ii) Composition

OR

- Q4)** a) Explain different components of a state diagram. [5]
- b) Explain how you model different events in state diagram. [5]
- c) Draw state chart diagram for Railway Reservation system. [5]
