

Total No. of Questions : 4]

SEAT No. :

**P5195**

[Total No. of Pages : 1

**[6188]-147**

**B.E. (Computer Engineering) (Insem)**

**OBJECT ORIENTED MODELLING & DESIGN**

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

*Time : 1 Hour]*

*[Max. Marks : 30*

*Instructions to the candidates:*

- 1) Answer Q.1 or Q.2, Q.3 or Q.4.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data if necessary.

- Q1)** a) Explain the types of relationship along with their notations. [5]  
b) Draw class diagram for ATM system. [5]  
c) Define object? Explain components of object diagram in brief? [5]

OR

- Q2)** a) Difference between link and association with suitable example. [5]  
b) What is OO development? Explain the OO the mes ? [5]  
c) Explain the following terms with respect to object oriented methodology. [5]  
i) Abstraction  
ii) Encapsulation  
iii) Sharing

- Q3)** a) Draw state diagram with composite states from ATM card reading & authentication system. [5]  
b) Write a short note on : [5]  
i) Package  
ii) Derived data  
iii) Constraints  
c) Define event and explain in brief different types of events. [5]

OR

- Q4)** a) Draw state chart diagram for Railway reservation system. [5]  
b) What do you mean by Association ends? Explain N-ary association in short. [5]  
c) What is state? Explain with example transitions and condition. [5]

