

Total No. of Questions :6]

SEAT No. :

**P47**

**TE/Insem./APR-52**

[Total No. of Pages : 1

**T.E. (Computer Engineering)**

**310253 : SOFTWARE MODELING AND DESIGN**

**(2015 Pattern) (Semester-II)**

*Time : 1 Hour]*

*[Max. Marks : 30*

*Instructions to the candidates:*

- 1) *Solve Q1 or Q2, Q3 or Q4, Q5 or Q6.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Assume suitable data, if necessary.*
- 4) *Figures to the right indicate full marks.*

**Q1)** a) Define software design and give its importance. [5]

b) Explain include and extend relationship in use case model with example.[5]

OR

**Q2)** a) Explain 4+1 view Architecture of UML. [5]

b) Draw Use case diagram for ATM system by considering cash withdrawal scenario. [5]

**Q3)** a) Define component. Compare component and deployment diagram. [5]

b) Explain the elements of a class diagram with example. [5]

OR

**Q4)** a) Explain with an example the difference between aggregation and composition. [5]

b) Draw Class diagram for college library management system. [5]

**Q5)** a) Draw a sequence diagram for Online Shoppe system. [5]

b) Explain the significance of Timing diagram with example. [5]

OR

**Q6)** a) Draw an activity diagram for credit card validation system. [5]

b) Define interface. Explain required and provided interface with example.[5]

