

Total No. of Questions : 6]

SEAT No. :

P541

[Total No. of Pages : 1

**TE/INSEM/APR-142**  
**T.E. (Computer Engineering) (Semester - II)**  
**SOFTWARE MODELING AND DESIGN**  
**(2015 Pattern)**

*Time : 1 Hour]*

*[Max. Marks : 30*

*Instructions to the candidates:*

- 1) *Answer any three questions.*
- 2) *Neat diagram must be drawn.*
- 3) *Assume suitable data if necessary.*

- Q1)** a) Describe classification of design based on abstraction level? [4]  
b) Draw Use case diagrams for automated cold-drink machine with scenario? [6]

OR

- Q2)** a) What is COMET? Explain Phases of COMET? [5]  
b) What is 4+1 view architecture? Why it is called as 4+1 view architecture? [5]

- Q3)** a) What are the different degrees of Multiplicity in association relationships? [4]  
b) State and explain below concepts: [6]  
i) Class Inheritance  
ii) Overriding  
iii) Polymorphism

OR

- Q4)** a) Explain Package Diagram with UML notations? [5]  
b) Describe & draw Deployment Diagram for ATM System. [5]

- Q5)** a) Explain basic symbols of sequence diagram and draw sequence diagram for Cellular Phone Working? [5]  
b) What is advanced state machine diagram? Draw for washing machine? [5]

OR

- Q6)** Write Short note on (Any two) [10]  
a) Fork & Join  
b) Swim lanes  
c) Association

