Total No. of Questions : 6]	26	SEAT No.:
P288	Oct./BE/Insem606	[Total No. of Pages : 2

B.E. (Information Technology)

SOFTWARE DESIGNAND MODELING

(2015 Pattern) (Semester - I) (414455) Time: 1 Hour] [Max. Marks: 30 Instructions to the cardidates. *1*) Solve Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6. Use UML 2.0 notations to draw UML diagrams. *2*) Figures to the right indicates full marks. *3*) tate and explain structural things in UM [5] Explain 4+1 view of software system b) [5] Explain Rumbaugh's Object Modeling Technique (OMT) in detail. [5] **Q2**) a) Explain Layered Approach to software development. b) What is Use case? Explain the concept of include and extend in use case **Q3**) a) modeling. [5] What is the purpose of use case diagram? Draw use case diagram for b) following medical clinic scenario. A patient calls the clinic to make an appointment for a yearly checkup. The receptionist finds the nearest empty time slot in the appointment book and schedules the appointment for that time slot.

OR

[5]

A company consists of departments Departments are located in one or **Q4**) a) more offices.

> One office acts as a headquarter Each department has a manager who is recruited from the set of employees. Draw a class diagram which consists of all the classes in your system their attributes and operations, relationships between the classes, multiplicity specifications, and other model elements that you find appropriate. [6]

Explain qualified association and generalization with example. b) [4]

Q5) Explain the concept of swimlanes, fork and join in Activity diagram using suitable example. [10]

OR

Q6) Draw a state Transition diagram using UML 2.0 notions for Document Publishing process in conference. What is Composite state. [10]