

**End Semester Examinations - 2015-16 Even Semester - May 2016**

**14CS3032 Object Oriented Software Engineering**

**Set  
A**

**Time : 3 hrs  
Total Marks: 100**

1. 1. What is Software Engineering? Explain about the object-oriented Software Engineering development activities and their products.

(20)

**OR**

2. 2.a) Explain the UML Use Case diagram and the UML Class diagram .

(14)

- b) Explain the technique used for reducing multiplicity in UML class diagram.

(6)

3. 3.a) Describe the analysis activities that transform the use cases produced during requirements elicitation into an analysis model and illustrate each activity on banking system. (14)

- b) Write short notes on Generalization and specialization.

(6)

**OR**

4. 4. a. Write down the various roles found in a software engineering project and explain the responsibilities of each role in detail.

(8)

- b. As many critical communication events are planned, why is there still a need for unplanned communication events? Explain the various unplanned communication events that are available to participants for sharing the information on software project.

(12)

5. 5. a.Explain the system design activities that are needed to ensure that subsystem decomposition addresses all design goals. (10)

- b. Explain the following system design concepts (i)coupling &cohesion (ii) subsystems&classes.

(10)

**OR**

6. 6. a.Explain the various software architectural styles that are used in system decomposition.

(12)

- b. Explain the following Reuse concepts (i) Delegation (ii) Liskov Substitution principle.

(8)

7. 7.a. What is mapping? Explain the various transformations occurred during object design and implementation activities?

(15)

- b. Discuss the transformation principles should be followed by the developer during transformation activity in order to avoid the chances of new errors.

(5)

**OR**

8. 8. a.Explain the Configuration Management activities that are needed to define and manage configuration items, promotions and releases. (14)

- b. Write short notes on version identification schemes.

(6)

9. 9. a.Explain in detail about project management activities.

(10)

- b.Depict the workflow in sequential activity-centered models in detail.

(10)