

END TERM EXAMINATION

FIFTH SEMESTER [B.TECH./M.TECH.] DEC. 2014-JAN.-2015

Paper Code: IT309

Subject: Object Oriented Software Engineering

Time : 3 Hours

Maximum Marks :60

Note: Attempt any five questions including Q.no.1 which is compulsory.

- Q1 Write short notes on any five of the following:- (4x5=20)
- (a) System testing
 - (b) Analysis model
 - (c) Software Development Life cycle
 - (d) Software quality assurance
 - (e) Software Metrics
 - (f) Requirement Model-Action and use-case.
- Q2 (a) Differentiate between the scenario and use cases. (5)
- (b) What are the activities involved during OOA phase? How the OOA is different from structured analysis? Provide the guidelines for an analyst during the OOA phase. (5)
- Q3 For hospital management system- (2.5x4=10)
- (a) Draw use-case model.
 - (b) Draw a sequence diagram for any one use case.
 - (c) Explain component diagram.
 - (d) Write use-case description of any one activity.
- Q4 (a) Describe the activities performed during requirement elicitation in detail. (5)
- (b) Differentiate between coupling and cohesion in detail. (5)
- Q5 (a) How do we differentiate between function and non-functional requirements? Give examples of each. (5)
- (b) Explain Entity class, interface class and control class in detail. (5)
- Q6 (a) Describe various diagrams we make in UML with example. (8)
- (b) What is an entity class? How it can be used in designing database structure? (2)
- Q7 (a) How do we identify the relationship between the entities? (5)
- (b) Explain following relationships with example:- (5)
- (i) Association
 - (ii) Aggregation
 - (iii) Composition
 - (iv) Dependency
 - (v) Generalization
- Q8 (a) Draw a class diagram for an employee having various attributes such as id, name, phone, email, street, city, basic sal, HRA, TA, DA. (5)
- (b) Differentiate between class diagram and object diagram in detail. (5)
- Q9 Discuss Testing process, Testing activities and Techniques. (10)

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