

END TERM EXAMINATION

FIFTH SEMESTER [B.TECH/M.TECH] DECEMBER 2016 JANUARY 2017

Paper Code: IT-309

Subject: Object Oriented
Software Engineering

Time : 3 Hours

Maximum Marks :60

Note: Attempt all questions as directed. Internal choice is indicated.

- Q1 Answer the following questions: (10x2=20)
- (a) Why is analysis required for a difficult task?
 - (b) What are the challenges in designing with inheritance?
 - (c) What is Random Testing?
 - (d) What is Guard Condition?
 - (e) Give examples of Composition and Aggregation.
 - (f) What are the difference between pattern and framework?
 - (g) What are Identifying Actors?
 - (h) What are objects in Analysis and Process?
 - (i) Differentiate between method and Process.
 - (j) What are the limitations of state transition table?

Unit-I

- Q2 (a) What are the software engineering development activities? Briefly explain each of activities in detail. (8)
- (b) Differentiate between ISO 9001 and SEI - CMM quality standards. (2)

OR

- Q3 What is the need of requirement elicitation? What are the Techniques for requirements elicitation? (10)

Unit-II

- Q4 (a) Draw a Requirement model for online hotel reservation. (5)
- (b) Differentiate between different types analysis objects for a University Examination System. (5)

OR

- Q5 (a) What is Analysis Model? For a hospital System make Analysis Model and Design Model. (5)
- (b) Draw a use case diagram for the admission process in a college where management decides whether to grant admission to a student or not. (5)

Unit-III

- Q6 (a) What are structural and behavioral things in UML? Explain (5)
- (b) A publisher publishes different books. An author can write different books but for the same publisher. A contract is signed between the publisher and the author. Reports such as the number of books sold, number of complimentary copies given, Royalty amount to be paid to the author etc. are generated from the system.

Draw a class diagram and an object diagram for the above case. (5)

OR

- Q7 Discuss the activities performed during the design phase. Explain with the help of an example. (10)

Unit-IV

- Q8 Write short notes on any two: (5x2=10)
- (a) Fault Based Testing
 - (b) Object Modeling Techniques
 - (c) Testing process

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