

END TERM EXAMINATION

FIFTH SEMESTER [B.TECH/M.TECH] DECEMBER 2015-JANUARY 2016

Paper Code: IT-309

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 note on the followings (any four): (4x5=20)
- (a) Unit testing
 - (b) Entity class, interface class and control class.
 - (c) Discuss the V model of testing.
 - (d) Dimensions of Analysis Model.
 - (e) Software measurements and software metrics.
 - (f) Defects density and Defect removal.
- Q2 (a) Explain spiral model of software development life cycle in detail with the help of neat diagram. (5)
- (b) What are the drawbacks of waterfall model? How they are overcome by other SDLC models? Discuss in brief. (5)
- Q3 (a) What are the various methods for requirement elicitation? List all of them and explain any one in detail. (5)
- (b) SRS document is created after the requirement elicitation. List various characteristics of good SRS design. (5)
- Q4 (a) What is use-case model? Why is the use-case modeling useful in analysis? (5)
- (b) Draw a neat USE-CASE diagram for ATM cash withdrawal mechanism. Make assumptions if necessary but clearly state them. (5)
- Q5 (a) Identify various types of relationship might exists between objects. How the association is different from aggregation? (5)
- (b) What are the various standards commonly followed during software development life cycle models? (5)
- Q6 (a) Compare and contrast object-oriented analysis with the conventional approach of structured analysis during the software development process. (5)
- (b) Make a class diagram for the student schema in University automation system. Give class representation along with attribute type and visibility classifiers. (5)
- Q7 Explain all UML diagram in brief. Take an example of Hospital Management System or University Automation System and draw UML diagrams for the case study in brief. Just make one UML diagram for each type. (10)
- Q8 (a) How the test cases are derived from Use-Case? Explain five step process in detail. (5)
- (b) Consider a Use-Case diagram of "Login" in to the system. Generate test cases for it. (5)
