

# END TERM EXAMINATION

SIXTH SEMESTER [B.TECH ] MAY-JUNE 2017

Paper Code: ETCS 304      Subject: Object Oriented Software Engineering

Time: 3 Hours

Maximum Marks: 75

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

- Q1. a) Explain the spiral model of software development. What are the limitations of such a model? (6.25)  
b) Differentiate between object oriented analysis and structured analysis. (6.25)  
c) Elaborate the difference goals of UML. (6.25)  
d) Differentiate between black box testing and white Box testing. (6.25)
- Q2. (a) Explain with suitable examples the different types of requirements problems that should be identified and resolved during the requirements analysis activity. (6.5)  
(b) Define waterfall model and iterative waterfall model. (6)
- Q3. a) Discuss the various models of object-Oriented Life Cycle. How is it different from structured software life cycle model? (6)  
b) Explain Object Oriented Methodology with suitable example. What are functional and non-functional requirement. Explain with example. (6.5)
- Q4. (a) What is the aim of the analysis model? What are the various dimensions of the analysis model? Describe various strategies for allocating the functionality. (6.5)  
(b) Explain component diagram. (6)
- Q5. (a) Define software testing. What is the purpose of integration testing? How is it done? What are various testing levels on which testing is done? Explain with examples. (6.5)  
(b) Differentiate between alpha and Beta testing. (6)
- Q6. Draw a class diagram and use case diagram for a Hospital Blood Bank which receives the test and stores blood donated by various students and also issue the blood to individual or hospital. Take suitable attributes and services in each class and show association between these classes. (12.5)
- Q7. a) Differentiate between a package, component diagram and a deployment diagram. (6)  
b) Differentiate between a sequence diagram and a collaboration diagram with the help of a suitable example. (6.5)
- Q8. Write short notes on **any two**: (6.25x2=12.5)  
a) Objected Oriented Methodology  
b) Object Oriented foundation class libraries  
c) Swim lanes & Guard conditions in Activity diagram.

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