

Code : 1G164

R11

III B.Tech. II Semester Supplementary Examinations December, 2014

Object Oriented Analysis and Design
(Common to CSE & IT)

Time: 3 hours

Max Marks: 70

Answer any FIVE of the following
All questions carry equal marks (14 Marks each)

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1. a) How system architecture plays a vital role in the development of software? Explain the Modeling System's architecture with diagram 7M
b) Why UML gained importance over DFD'S? What are the important building blocks of the UML? 7M
2. a) What are the important aspects to be considered to model the vocabulary of a system? 7M
b) Define class. Draw a class diagram for a retail system. 7M
3. Explain about: i.) Generalization ii.) Association iii.) Realization
iv.) Dependency (4x 3.5)=14M
4. a) How collaboration diagrams are useful in building a system and how it differ from sequence diagram. 7M
b) What are the important elements of sequence diagram? Draw a sequence diagram for Retail system. 7M
5. a) Define use case. What are the points to be considered to model the context of system using use case diagrams? 7M
b) Model a retail system using use case diagram 7M
6. a) Define a state. What are the important parts of a state? 7M
b) Draw the sequential sub states for an ATM machine. 7M
7. a) Explain the purpose of component diagram and also explain the distribution of artifacts using component diagram 7M
b) Explain about Deployment diagram components and How it is useful in the modeling of an Embedded system 7M
8. Draw Class & Sequence diagrams for library system. 14

Tilam Krishna

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III B.Tech. II Semester Supplementary Examinations December, 2014

Software Testing Methodologies
(Information Technology)

Time: 3 hours

Max Marks: 70

Answer any FIVE of the following
All questions carry equal marks (14 Marks each)

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1. Explain the taxonomy for bugs?
2. Write the applications of path testing?
3. Discuss the transition flow testing techniques?
4. Write a brief note on domains and paths?
5. Write a short note on
 - a) Cross term step
 - b) Parallel term
 - c) Loop term
6. Explain the path expression again with Boolean algebra and Boolean equations?
7. Discuss the software implementation with state graphs?
8. Explain the matrix of a graph with simple weight?
