E-sem- D-014-CO

QP Code: 1867

9/11/15

100 Marks (3 Hours) N.B. (1) Question No. 1 is compulsory. (2) Attempt any four questions out of remaining six questions. (3) Assume data if required and state clearly. 1 (a) Construct Class Diagram and Sequence Diagram for Railway Reservation System. (b) Construct Use Case Diagramand Activity Diagram for ATM activities. 10 2 (a) Explain the Open Source Software lifecycle model. 10 (b) What do you mean by requirements? Explain functional and non functional requirements indetail. 10 3 (a) Explain COCOMO model used for software estimation. 10 (b) Explain and compare FTR and walkthrough. 10 4 (a) Explain different types of coupling and cohesion. (b) Explain in detail about different levels of CMM with their characteristics. 10 5 (a) Explain the Software Configuration Management and Change Control Management in detail. 10 (b) What are different types of maintenance and also explain steps for creating maintenance logs. 10 6 (a) What is software quality assurance? Explain different quality matrics. 10 (b) Differentiate between static modeling and dynamic modeling in detail. 10 7. Write short notes on (any Two) 20 (a) Software Architectural style. (b) Reverse and Reengineering. (c) Risk Management

(d) Task network and Timeline Chart