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- Q-1** Answer the following question
- a) What is Software Engineering? Explain Software Engineering: A Layered Technology. 07
- b) Explain Software Development Process models. 07
- OR**
- Q-1** Answer the following question
- a) Define software engineering. Explain costs of software engineering for each of the process activities. 07
- b) Describe Software development cycles. 07
- Q-2** Answer the following question
- a) Explain the role of SRS in software engineering. 07
- b) How problem analysis in software engineering. 07
- OR**
- Q-2** Answer the following question
- a) Explain the software requirement specification (SRS) document. 07
- b) Give the difference of verification and validation. 07
- Q-3** Answer the following question
- a) List possible software risks and explain risk management process. 07
- b) Compare Coupling and Cohesion. Explain different types of Coupling and its effects on software modules 07
- OR**
- Q-3** Answer the following question
- a) Explain the Design Methodology for development of any software 07
- b) Compare Functional approach vs. Object oriented approach in detail. 07
- Q-4** Answer the following question
- a) What is Software Testing? What is the role of a Software Tester? 07
- b) Explain the Levels of Testing. 07
- OR**
- Q-4** Answer the following question
- a) Explain Testing Fundamentals in detail 07
- b) Compare: Black Box Testing and White Box Testing 07
- Q-5** Answer the following question
- a) Explain software engineering case study for library management system. 14
- OR**
- Q-5** Answer the following question
- a) Explain software engineering case study for Automated Banking System. 14