

**Q.2 a. List various software process paradigms. Explain how a waterfall model and prototyping model can be accommodated in a spiral model.**

**Answer:** Page no. 89 of Text book

**b. Explain the concept of risk mitigation, monitoring and management with the help of examples.**

**Answer:** Page no. 116 of Text book

**Q.3 a. Describe the significance of “Formal Technical Review”. Should it access programming style as well as correctness of software? Give reasons.**

**Answer:** Page no. 166 of Text book

**b. What is the significance of system models in requirement engineering processes? Give the differentiating features between various system models.**

**Answer:** Page no. 168, 193 of Text book

**Q.4 a. Explain a rapid integration tool for Rapid application development approach. Explain its utility.**

**Answer:** Page no. 415 of Text book

**b. Write a formal specification sheet for a proposed project of your choice. Make necessary assumptions wherever necessary.**

**Answer:** Page no. 416 of Text book

**c. Give the advantage of agile methods in software engineering.**

**Answer:** Page no. 420 of Text book

**Q.5 a. Explain system organization models in detail.**

**Answer:** Page no. 266 of Text book

- b. What is a Distributed System? Explain the significance and limitations of using a Distributed System.**

**Answer:** Page no. 290 of Text book

- Q.6 a. How do object oriented design (OOD) and structured design differ? What aspects of these two design methods are the same?**

**Answer:** Page no. 340 of Text book

- b. What do you mean by software reuse? Explain various application frameworks associated with software reuse. Give examples.**

**Answer:** Page no. 442 of Text book

- Q.7 a. Write the importance of user interface in software. How this phase is designed and implemented?**

**Answer:** Page no. 463 of Text book

- b. Explain software architectural design and describe how component level design gets implemented.**

**Answer:** Page no. 386 of Text book

- Q.8 a. Describe the alpha, beta, stress and integration testing schemes. Illustrate these schemes with suitable examples.**

**Answer:** Page no. 561 of Text book

- b. Differentiate between black box testing and white box testing.**

**Answer:** Page no. 571 of Text book

- Q.9 a. What do you mean by revision control? How is configuration management carried out? Explain.**

**Answer:** Page no. 666 of Text book

- b. Explain the facilities provided by system-building CASE tools.**

**Answer:** Page no. 677 of Text book

**Text Book**

**Software Engineering, Ian Sommerville, 7<sup>th</sup> Edition, Pearson Education, 2004**