

Time allowed : 3 hours]

[Maximum marks : 100]

Note : Attempt any five questions. All questions carry equal marks.

1. (a) Explain Iterative enhancement model of S/W development life cycle. 10
- (b) Discuss the parameters for the selection of a life cycle model. 10
2. (a) How do you calculate function points using FPA ? Explain with an example. 10
- (b) Explain one model for estimating the cost of a software. 10
3. (a) What are the key concepts in designing a software ? 10
- (b) Draw level-1 DFD for Railway Reservation system. 10

4. (a) What are different risk management activities ?
10
- (b) What is S/W quality ? Discuss the software quality attributes.
10
5. (a) Define the following terms:
Error, Bug, Fault, Defect, Failure, Test case, Test suite.
7
- (b) Explain life cycle of a Bug.
5
- (c) What is S/W Testing ? What are various testing principles ?
8
6. (a) What are different levels of Testing ?
8
- (b) Design various test cases to find out the roots of a quadratic equation using various methods of functional testing.
12
7. (a) What is software reliability ? Explain any one reliability model in detail.
10
- (b) Explain the various methods for S/W reviews.
10

8. Write short notes on the following:

20

- (a) CMM
- (b) CASE Tools
- (c) Data Dictionary
- (d) Coupling and Cohesion.