



- Notes :
1. All questions carry marks as indicated.
 2. Solve Question 1 OR Questions No. 2.
 3. Solve Question 3 OR Questions No. 4.
 4. Solve Question 5 OR Questions No. 6.
 5. Solve Question 7 OR Questions No. 8.
 6. Solve Question 9 OR Questions No. 10.
 7. Solve Question 11 OR Questions No. 12.
 8. Due credit will be given to neatness and adequate dimensions.
 9. Illustrate your answers whenever necessary with the help of neat sketches.

1. a) State and comment on following software myths. 5
 i) Practitioner's myth. ii) Customer myths.

- b) Explain waterfall model for software development in detail and state its advantages and disadvantages. 8

- OR**
2. a) What is agile process? What are different principles of agile process? 7

- b) Comment on "Software Engineering a layered technology". 6

3. a) Explain software measurement principles. 7

- b) Describe the difference between process and project metrics. 6

- OR**
4. a) Discuss in brief a task network for concept development. 7

- b) Explain cocomo of estimation. 6

5. a) Define the following terms with respect to requirement engineering:- 6
 i) Inception ii) Elicitation
 iii) Elaboration iv) Negotiation
 v) Specification (any three).

- b) Explain CRC model and draw class diagram for floor plan. 8

- OR**
6. a) "Analysis is a bridge between system engineering and software design", comment. 6

- b) Explain in brief steps in creating use case diagram. 8

7. a) Explain information hiding and functional independence. 6

- b) What is DFD? Draw DFD for house alarm system. 7

- OR**
8. a) Explain following design concepts. 9
 i) Cohesion and coupling.
 ii) Modularity.
 iii) Association and Dependencies.

- b) Describe the role of content in design pattern. 4
9. a) Define and explain block bore testing with equivalence partitioning and boundry value analysis. 7
- b) Discuss following with example: 7
- i) Unit testing. ii) Integration testing.
- OR**
10. a) What is validation testing? Explain alpha and beta testing. 8
- b) Comment on "Testing patterns can help a software team communicate more effectively about testing and better understand the forces that lead to a specific testing approach". 6
11. a) Explain SCM process with the help of suitable diagram. 6
- b) Elaborate the risk identification and overall project risk. 7
- OR**
12. Write short note on **any three**. 13
- i) Code restructuring.
- ii) BPR mode.
- iii) RMMM.
- iv) McCall's quality factors.
