



- Notes :
1. All questions are compulsory.
  2. All questions carry equal marks.
  3. Assume suitable data wherever necessary.
  4. Illustrate your answers wherever necessary with the help of neat sketches.

1. a) Explain in detail principles of Testing. Also state its limitations. **8**  
b) Explain defect classes with example. **8**

**OR**

2. a) What do you mean by software testing? Discuss software testing life cycle. **8**  
b) What are the different strategies used for software testing? **8**

3. a) Discuss the test case design strategies in detail. **8**  
b) What is white box testing? How to compute cyclomatic complexity? **8**

**OR**

4. a) What is black box testing? Discuss equivalence partitioning technique in Blackbox testing. **8**  
b) Compare static testing with structural testing. **8**

5. a) What is integration testing? Explain test plan for integration testing. **8**  
b) Explain. **8**
  - i) Defect Bash elimination.
  - ii) Running the unit test and recoding results.

**OR**

6. a) Explain Alpha testing and Beta testing in detail. **8**  
b) Discuss about designing the unit tests. **8**

7. a) List and explain tester's and manager's role in supporting test organization. **8**  
b) Explain V-model for integrating testing activities. **8**

**OR**

8. a) Explain various steps in forming test groups. **8**  
b) Explain test team hierarchy. **8**

9. a) Explain project, progress & productivity metrics with respect to testing. **8**  
b) What are the components of test automation infrastructure? **8**

**OR**

10. a) What are various software quality metrics? Explain them. **8**  
b) Discuss the challenges in automation test metrics. **8**

\*\*\*\*\*