

N. B:

- 1) All questions are compulsory.
- 2) Make suitable assumptions wherever necessary and state the assumptions made.
- 3) Answers to the same question must be written together.
- 4) Numbers to the right indicate marks.
- 5) Draw neatly labeled diagrams wherever necessary.
- 6) Use of Non-programmable calculators is allowed.

**1. Attempt any two of the following.**

- a. What is software testing? Give the objectives of testing
- b. *Describe the steps of fundamental test process*
- c. *What are the causes of software defects?*
- d. *Define the term confirmation testing. Give its importance*

**2. Attempt any two of the following.**

- a. *Define and compare the concept of verification and validation*
- b. *"Nonfunctional testing emphasizes on product characteristics" Discuss*
- c. *Explain Alpha and Beta Testing with reference to acceptance Testing*
- d. *With the help of diagram explain V Model.*

**3. Attempt any two of the following.**

- a. *What is Kick of Meeting? Explain its Role and Importance*
- b. *Describe the roles and responsibilities of moderator and manager in review process*
- c. *Explain the goals of Technical*
- d. *Explain static analysis as a form of testing*

**4. Attempt any two of the following.**

- a. *What is decision table? Describe decision table testing technique*
- b. *State and explain the factors considered for choosing Test techniques*
- c. *Compare Black Box Testing Vs White Box Testing*
- d. *Write a note on Boundary Value Analysis technique with suitable example*

**5. Attempt any two of the following.**

- a. *What is a Test Plan? State and explain any four components of a Test Plan Test*
- b. *What are the skills that are needed for the test leader?*
- c. *What do you mean by Risked based testing?*
- d. *Define the terms Priority and Severity with reference to incident management.*

**6. Attempt any two of the following.**

- a. *What are the potential benefits of using tools to support testing?*
- b. *Explain the terms Stub and Driver with reference to test harness.*
- c. *Explain Dynamic analysis tools used for Performance Monitoring.*
- d. *Explain any one tool used for Static testing*

7. Attempt *any three* of the following.

- a. Explain any 2 Testing principles.
- b. What is portability? Explain portability testing
- c. Compare Static Vs Dynamic Testing
- d. Explain equivalence partitioning as a test design technique
- e. What are the purposes of Test Monitoring?
- f. State and explain Risk factors associated with use of the Testing Tools

