

Q.P. Code :01765

[Time: $2\frac{1}{2}$ Hours]

[Marks:75]

Please check whether you have got the right question paper.

- 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 **neat labeled diagrams** wherever **necessary**.
 6. Use of **non-programmable** calculators is **allowed**.

Q.1 Attempt any two of the following: (10)

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

Q.2 Attempt any two of the following: (10)

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

Q.3 Attempt any two of the following: (10)

- a. What is kick-off 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 review.
- d. Explain static analysis as a form of testing.

Q.4 Attempt any two of the following: (10)

- 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 and White Box Testing.
- d. Write a note on Boundary Value Analysis technique with suitable example.

Q.5 Attempt any two of the following: (10)

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

Q.6 Attempt any two of the following:

(10)

- 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.

Q.7 Attempt any three of the following:

(15)

- a. Explain any two testing principles.
- b. What is portability? Explain portability testing.
- c. Compare Static and 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.