Q.P. Code :01765

[Time: 2½ 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 means 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 he 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.