

Time: (2½ Hours)

[Total Marks: 75]

- N. B.: (1) All questions are compulsory.  
(2) Answers to the same question must be written together.  
(3) Numbers to the right indicate marks.  
(4) Draw neat labeled diagrams wherever necessary.

- Q.1 Attempt any three of the following: 15
- Differentiate between continuous improvement and continual improvement.
  - What is Quality? Explain different views on quality
  - Explain the concept of 'q' organizations and 'Q' organizations
  - Explain the structure of Quality Management system
  - Write a short note on financial aspect of quality
  - List and explain five requirements of a product
- Q.2 Attempt any three of the following: 15
- Write a short note on Requirement Traceability Matrix
  - Explain the life cycle of testing
  - Explain in brief waterfall model
  - Explain gray box testing with its advantages and disadvantages
  - State and explain the goals of testing.
  - Explain white box testing and state its advantages and disadvantages
- Q.3 Attempt any three of the following: 15
- Explain in brief Data Flow Testing
  - Explain slice-based testing with an example
  - Explain Boundary value Analysis?
  - Write a short note on improved equivalence class testing
  - What is decision table testing technique? Explain in detail with an example
  - How to calculate cyclomatic complexity?
- Q.4 Attempt any three of the following: 15
- Explain different levels of acceptance testing.
  - Explain testing during design phase.
  - Explain the different roles and responsibilities of development group?
  - Explain types of reviews on basis of test phase
  - Diagrammatically explain V model
  - Describe about walkthrough review.
- Q.5 Attempt any three of the following: 15
- Describe the process of testing data warehouse systems.
  - Describe the mobile applications (PDA) testing process
  - Explain COTS testing process
  - Write a short note on Smoke Testing
  - What is Integration testing? Explain with an example
  - What is bottom up and top down testing? Explain with an example