

SQA Question Bank

UNIT - I

1. Explain Quality in terms of different Perspective.
2. What is historical perspective of Quality?
3. Which are the core components of quality?
4. Define quality as viewed by different stack holders of software development and usage.
5. Explain financial aspect of quality.
6. Write short note on customers, suppliers and processes.
7. What is TQM? 8. State and explain principles of TQM.
9. How qualities manage by statistical process control?
10. Why and how to use SPC?
11. Describe cultural changes requirement for quality improvement.
12. Write short note on continual improvement cycle.
13. What is PDCA?
14. State quality perspective in different areas.
15. Write short note on Benchmarking.
16. Explain Problem solving technique in TQM
17. List and explain problem solving tools.
18. Define Software quality.
19. What are the constraints of product quality assessment?
20. Write short note on "Customer as King".
21. What are the Different types of requirements?
22. What are different characteristics of software?
23. Explain software development processes.
24. How product are classified depending upon their criticality?
25. Which are the problematic areas of SDLC?
26. Explain software quality management.
27. Why software has defect?
28. Which processes are related to software quality?

29. Explain generic view of quality management system.

30. Which are pillars of quality management system?

31. Explain important aspect of Quality management.

UNIT –II

1. Why testing is necessary?

2. List and explain fundamental test processes.

3. Explain evolution of software testing.

4. Explain why independent testing is required.

5. State important features of testing process.

6. Explain big bang approach of software testing.

7. What are the misconceptions about testing?

8. State silent features of good testing.

9. Explain the basic principal on which the testing is based.

10. Explain the concept of test team's defect finding efficiency.

11. What are the challenges faced by tester?

12. Explain the processes of developing by test strategy.

13. How to establish testing policy?

14. Explain the testing as a process of software certification.

15. Explain the process of developing test methodology.

16. Which skills are required in good tester?

UNIT –III

1. What is Unit Testing? State its Advantages

2) Write short note on Boundary value testing.

3) Explain Robust Boundary value testing.

4) Write short note on Worst-Case Boundary value testing.

5) Explain special value testing and Random value testing.

6) What is Equivalence class testing?

7) How Improved Equivalence classes testing?

8) Compare Weak normal and strong normal equivalence class testing.

- 9) Compare Weak Robust and Strong Robust Equivalence class testing.
- 10) Describe decision table based testing.
- 11) Explain Decision table techniques in detail.
- 12) Write short note on Cause and Effect graph.
- 13) Explain Path Testing in detail.
- 14) Write short note on Program graph.
- 15) Describe DD-Path.
- 16) Write short note on Basis Path Testing.
- 17) Explain Data Flow Testing in details.
- 18) Explain Slice – based testing in detail. And its Program Slicing Tools.

UNIT IV

1. Explain Verification in detail with its Advantages.
2. Write short on Verification Work Bench
3. Write in brief Methods of Verification.
4. Explain Types of Review on the Basis of Stage/Phase.
5. Explain Entities involved in verification.
6. Write short on Review in Testing Life Cycle.
7. Explain Coverage in Verification (Test Designing) in detail.
8. Write short note on Concerns of verification.
9. Explain Validation in detail.
10. Write short note on Validation Work Bench.
11. Explain Levels of Validations.
12. Explain Coverage in Validation. Or Explain Prioritization/Slice based testing.
13. Write Short note on Acceptance Testing.
14. Explain Management of Verification and Validation (V & V) in detail.
15. Explain Software Development Verification and Validation Activities.
16. Explain V- Model for Software in detail.
17. Write short note on Testing during proposal testing.
18. Explain Testing during Requirement Stage in detail.

19. Explain Testing during Test-Planning phase.

20. Write short note on Testing during Design Phase.

21. Write short note on Testing during Coding. OR. Explain Testing during Coding and Aspects to be checked.

22. Explain V V Model in detail.

23. Explain Critical Roles and Responsibilities of VV Model.

UNIT –V

1. Explain Proposal review processes.

2. Describe code review and unit testing processes.

3. Describe bottom-up and top down approach.

4. Write short on Requirements testing

5. Explain validation and verification

6. What is Integration testing?

7. What is Big Bang Testing?

8. Explain Following testing Type a. Critical path first b. Module testing c. Unit testing d. Sandwich Testing.

9. Describe different testing stages.

10. What is GUI testing? State its advantages and disadvantages.

11. Describe Compatibility Testing.

12. Explain Security testing in detail.

13. Write short note on following Testing Types a. Performance Testing. b. Volume Testing. c. Stress Testing d. Recovery Testing. e. Installation Testing. f. Requirement Testing (Specification Testing).

14. Write short note on Error Handling Testing.

15. Explain Manual Support Testing.

16. Write short note on Intersystem Testing.

17. Write short note on Smoke Testing.

18. Write short note on Adhoc Testing (Monkey Testing, Exploratory Testing, Random Testing).

19. Write short note on Parallel Testing

20. Explain Operations Testing.

21. Write short note on Compliance Testing.

22. Explain Usability Testing.
23. Write short note on Decision Table Testing (Axiom Testing).
24. Explain Documentation Testing.
25. Write short note on Training Testing.
26. Explain Rapid Testing.
27. Write short note on Control Flow Graph.
28. Explain Generating Tests on the Basis of Combinatorial Designs.
29. Explain State Graph in detail. 30. Describe Risk Associated with Technologies
31. What is Process Maturity Level of Technology?