

1. What is software testing? Explain testing principles.
2. Define the following terms: QA, QC, QM
3. Write a note on Nature of errors.
4. Discuss software quality factors.
5. Write in brief about test case design.
6. Write a note on Black box testing.
7. Explain strategic approach to software testing
8. What is validation testing? Give example.
9. Write a note on unit testing.
10. Explain the role of software metrics
11. Explain cyclomatic complexity with example.
12. How to use defects for process improvement
13. What is Quality movement?
14. Explain 5 quality assurance activities.
15. What is six sigma? Explain its core steps.
16. What is FTR ? Discuss its objectives
17. State types of quality costs. Explain anyone of them.
18. Write a note on quality tools.
19. Discuss phases of formal review
20. What are test plans and test cases ? explain with an example.
21. Write a note on software reliability
22. Write in brief about defect life cycle.
23. Explain SQA plan.
24. Explain five desirable software qualities
25. Give the concept of software reviews, Inspection and walkthrough.
26. List black box testing types, explain any two
27. Discuss levels of testing
28. Distinguish between Verification and validation
29. Write a note on SDLC
30. Write a note on unit testing
31. Explain categories of software metrics
32. Discuss defect management process in detail.
33. What are smoke testing and its benefits.
34. Give the concept of complexity metrics
35. Explain bottom up integration testing
36. Discuss any five guidelines for formal technical review
37. What are the advantages of ISO 9000 standards
38. Write a note on SQA plan
39. How to measure quality cost?
40. What are the elements of software reliability? State factors affecting it.

41. Write a brief about any three reliability metrics
42. Differentiate between whitebox and black box testing.
43. How to use defects for process improvement?
44. What are activities under quality movement?
45. Explain Cyclomatic complexity with example.
46. Write in brief about test case design. give example.
47. Discuss roles and responsibilities in review.
48. Write note on Black box testing
49. Differentiate between Inspection and walkthrough
50. Write note basis path testing
51. Discuss types of software quality factors.
52. Write a note on Alpha and beta testing in validation testing
53. Define software metric. Give its purpose explain its types
54. Explain the steps of defect management process
55. Discuss strategic approach to software testing
56. What is the format of defect report? Explain
57. Explain top-down Integration testing
58. Write a note on SQA plan
59. Explain pareto diagram with example.
60. List types of quality costs. Explain in detail
61. Define six sigma. Explain its basic step
62. How to measure quality cost
63. Discuss formal technical review in detail
64. Explain different phases of SDLC
65. What is system testing? Explain its any two types
66. Explain the following
 - a. ISO
 - b. ISO 9000
 - c. ISO 9000 series
67. Differentiate between verification and validation
68. What are the measures of reliability and availability? Explain