

TOPS Technologies

Fundamental Questions

1. What is Software Engineering?
2. What is software testing?
3. What is SDLC?
4. What is the ratio of developers and testers?
5. Why waterfall Methodology is not appropriate for today's testing environment?
6. What is difference between waterfall and iterative development?
7. Difference between build and release
8. Explain the agile model.
9. What is importance of testing in SDLC?
10. difference between POP and OOP
11. which are the OOP features
12. What is SQL
13. What are the tools for database management system
14. What is relational database mangement system?
15. Which are the constraint in RDBMS explain it with examples
16. What is difference between primary key and forighn key?
17. What is use of joins in SQL ?How many types of joins available?
18. What is product based and project based application?
19. What is web application,desktop application?
20. What is architechure of web application?
21. What are the SDLC models?

Technical Questions

18. What is software testing?
20. What is SDLC?
22. What is STLC?
24. What is the general testing process?
26. What is the role of a test engineers?
28. What is the testing life cycle?
30. Give names of general testing principles?
32. What is a Defect?
34. What are seven general principales of Testing?
36. What is role of a QA engineer?
38. What is the ratio of developers and testers?

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40. What is "Quality Assurance"?
42. What is software testing methodology?
44. Why waterfall Methodology is not appropriate for today's testing environment?
46. What is difference between waterfall and iterative developmant?
48. What makes a good test engineer?
50. Can you give me an example on reliability testing?
52. Diferences Between System Testing and User Acceptance Testing?
54. What makes a good test engineers?
56. For Reliability, Usability and Testability. Explain why you would test for these factors?
58. How do test case templates look like?
60. What's the difference between QA and testing?
62. What black box testing types can you tell me about?
64. What is White Box testing
- 65.
- 66.
- 67.

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- 20 What is architecture of web application?
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- 25 What is the difference between V-model and water fall model?
- 26 What is functional testing and non functional testing?
- 27 Why Testing CANNOT Ensure Quality?
- 28 What is Retesting?
- 29 What is Regression testing?
- 30 What is Sanity Testing?
- 31 What is Load Testing?
- 32 What is Stress Testing?
- 33 What is Performance testing?
- 34 What is Reliability Testing?
- 35 What is Alpha Testing?
- 36 What is Beta Testing?
- 37 What is difference between Stress testing and Load Testing?
- 38 What is importance of static testing techniques?
- 39 What is the purpose of Test Strategy?
- 40 What is Test Script?
- 41 What is Bug (Defect) Life Cycle?
- 42 What are different Defect Stages?
- 43 What is differed status in defect life cycle?
- 44 What is Defect Reporting?
- 45 How descriptive should your bug/defect report be?



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- 46 What does the tester do when the defect is fixed?
- 47 What is API testing?
- 48 When do we prepare a Test Plan?
- 49 What is boundary value analysis?
- 50 What is the purpose of black box testing?
- 51 How do you create a test plan/design?
- 52 What is the purpose of a test plan?
- 53 Can we prepare Test Plan without SRS?
- 54 What is the purpose of test strategy?
- 55 What is the difference between a software bug and software defect?
- 56 What's the difference between priority and severity?
- 57 What is the difference between software fault and software failure?
- 58 Why back-end testing is required, if we are going to check the front-end?
- 59 Would like to know whether Black Box testing techniques like Boundary Value Analysis and Equivalence Partitioning - during which phases of testing are they used, if possible with examples ?
- 60 How do you write test cases?
- 61 What is the difference between a test plan and a test scenario?
- 62 What is the difference between system testing and integration testing?
- 63 What is the difference between performance testing and load testing?
- 64 What is the difference between reliability testing and load testing?
- 65 Some general guidelines on what to test for web based applications.

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66 What is the difference between volume testing and load testing?

67 What types of testing can you tell me about?

68 "which test cannot be automated?

a. Performance testing

b. Regression

c. user interface

d.none

"

69 Why are there so many software bugs?

70 What are Test Cases, Test Suites, Test Scripts, and Test Scenarios (or Scenaria)?

71 What is risk analysis? What does it have to do with Severity and Priority?

72 "Give some examples of

Low Severity and Low Priority Bugs

High Severity and Low Priority Bugs

Low Severity and High Priority Bugs

High Severity and High Priority Bugs ?

"

73 What if there isn't enough time for thorough testing?

74 What does a test strategy document contain?

75 Whats the difference between ISO vs CMM ?

76 What can be done if requirements are changing continuously?

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- 77 How to write Test Case for telephone ?
- 78 How do you know when to stop testing?
- 79 WHAT WILL BE TESTED ON A STATIC WEB PAGE?
- 80 How to test a web application, for security testing of Web Application?
- 81 Why do we recommended that we test during the design phase?
- 82 What is the exact difference between functional and non functional testing?
- 83 How do you conduct peer reviews?
- 84 How do you check the security of an application?
- 85 What's the difference between Alpha, Beta and User Acceptance testing?
- 86 What is the difference between version and release?
- 87 How to write Test cases for Login screen?
- 88 Why should I use static testing techniques?
- 89 What testing approaches can you tell me about?
- 90 What are non-functional requirements?
- 91 What are the differences between these three words Error, Defect and Bug?
- 92 What is the formal technical review?
- 93 Which things to consider to test a mobile application through black box technique?
- 94 When the build comes to QA team, What are the parameters to be taken for consideration to reject the build upfront without committing for testing?
- 95 What if the application has functionally that wasn't in the requirements?
- 96 Switch PC on Start "outlook" IF outlook appears THEN Send an email Close outlook
Determine the minimum for statement and branch coverage

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97

98

99 Designing the test environment set-up and identifying any required infrastructure and tools are a part of which phase

100 Evaluating testability of the requirements and system are a part of which phase:-

101 Repeated Testing of an already tested program, after modification, to discover any defects introduced or uncovered as a result of the changes in the software being tested or in another related or unrelated software component:

102 Test Scenario for mobile phone

103 Test Scenario for pen drive

104 Explain Black box testing techniques with examples.

105 Deciding How much testing is enough should take into account :-

i.Level of Risk including Technical and Business product and project risk

ii.Project constraints such as time and budget

iii.Size of Testing Team

iv.Size of the Development Team

106 Test planning has which of the following major tasks?

i.Determining the scope and risks, and identifying the objectives of testing.

ii.Determining the test approach (techniques, test items, coverage, identifying and interfacing the teams involved in testing, test ware)

iii.Reviewing the Test Basis (such as requirements, architecture, design, interface)

iv.Determining the exit criteria.

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Which options are true and false?

107 What are the types of testing? Explain it.

108 What are the advantages of spiral model over water fall model?

109 Success Factors for a review include:

i. Each Review does not have a predefined objective

ii. Defects found are welcomed and expressed objectively

iii. Management supports a good review process.

iv. There is an emphasis on learning and process improvement. Which options are correct and incorrect?

110 Explain the status for Bug Reports?

111 Explain application architecture.

112 Explain the agile model.

113 Explain phases of STLC.

114 Differentiate following

1. System vs Acceptance testing

2. Alpha vs Beta testing

3. verification vs validation

4 static vs dynamic testing

5 release vs build

6. Regression vs retesting

6. sanity vs smoke

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- 7 System testing vs end-to-end testing
- 8. Reliability vs Usability testing
- 9. Functional vs non-function testing
- 10. Debugging vs Testing
- 11. Formal vs Informal Review
- 12. Strees vs load testing
- 13. SDLC vs STLC
- 115 Who are Stakeholders?
- 116 What are requirements? And why is it important for an IT person to understand
- 117 Who gathers requirements?
- 118 What is a project scope document?
- 119 What is a project plan?
- 120 What is the difference between functional requirement and non-functional
- 121 When and how does a tester start testing?
- 122 What model do companies follow?
- 123 Why is software testing important? Why do companies invest in testing
- 124 Can developers work as Software Testers?
- 125 When should testing Start in a project? Why?
- 126 What are the common problems in the software development process?
- 127 What is the difference between Software Testing and Quality Assurance (QA)?
- 128 Explain Compatibility testing with an example?

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- 129 What is Traceability Matrix?
- 130 Explain Use case diagram
- 131 Define Verification and Validation
- 132 What is entry criteria and exit criteria?
- 133 How to determine that software testing is completed and the product/project
- 134 What comes first Validation or Verification? Explain why?
- 135 What are ISO standards? Why are they important?
- 136 What is Smoke Test and Sanity Testing? When will use the Above Tests?
- 137 What is the difference between High level and Low Level test case?
- 138 What is End-to-End testing?
- 139 Explain Risk Analysis in Software Testing?
- 140 Explain Unit testing, Interface Testing and Integration testing
- 141 Explain Alpha, Beta, Gamma Testing?
- 142 Explain the methods and techniques used for Security Testing?
- 143 What is the difference between bug log and defect tracking?
- 144 What are Integration Testing and Regression Testing?
- 145 Explain Peer Review in Software Testing?
- 146 What is the difference between Two Tier Architecture and Three Tier
- 147 What is Web Application testing?
- 148 How Severity and Priority are related to each other?
- 149 Explain the different types of Severity?

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- 150 What is the difference between Priority and Severity?
- 151 What is Defect Severity?
- 152 What is the difference between Test Strategy and Test Plan? Which is created
- 153 Explain Statement coverage/Code coverage/Line Coverage?
- 154 Explain Branch Coverage/Decision Coverage? TOPS Technologies
- 155 What is Smoke Test and Sanity Testing? When will use the Above Tests?
- 156 Why do you go for White box testing, when Black box testing is available?
- 157 What is Equivalence Partitioning?
- 158 Why do we prepare test condition, test cases, test script (Before Starting
- 159 Explain Boundary value testing and Equivalence testing with some examples?
- 160 What is Security testing?
- 161 What is Installation testing?
- 162 What is AUT?
- 163 What are the contents in an effective Bug report?
- 164 What is Error guessing and Error seeding?
- 165 What is review process? Explain it with phases
- 166 What is Ad-hoc testing?
- 167 What is automation testing?
- 168 When should companies automate?
- 169 Can automation be conducted in the same environment as Manual Testing?
- 170 Do we need the same team to perform automation testing?

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- 171 Do we need to re-write test cases for Automation testing scenarios?
- 172 What is the difference between Functional testing and Non-functional testing?
- 173 Can automation be performed on both functional testing and non-functional
- 174 IS automation testing carried out with every release of a product?
- 175 On basis of which document you built a test case?
- 176 What is the difference between design and analysis phase?
- 177 What is the test principal?
- 178 What is fundamental test process?
- 179 Difference between severity and priority?
- 180 What is the difference between debugging and defects?
- 181 Tell me some key challenges that you face while you develop software?
- 182 What is test scenario?
- 183 What is bug?
- 184 Explain v model?
- 185 What is the importance of traceability matrix?
- 186 What is the difference between authorization and Authentication?
- 187 What is regression testing?
- 188 What is static testing and dynamic testing?
- 189 What is review? What happens after a review?
- 190 What is the difference between Priority and Severity?
- 191 What is the difference between Static testing and dynamic testing?

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- 192 What is Re-testing?
- 193 What is meant by testing environment?
- 194 Is it possible to get different results in the testing environment and
- 195 Cost of solving a bug from requirements phase to testing phase - increases
- 196 What is the difference between an exception and an error?
- 197 What is the difference between a defect and an enhancement?
- 198 What is a test plan?
- 199 Explain Unit testing, Interface Testing and Integration testing
- 200 Why do you go for White box testing, when Black box testing is available?
- 201 How would you ensure 100% coverage of testing?
- 202 What criteria do you use when determining when to automate a test or leave it
- 203 What is Scenarios in term of testing?
- 204 What is structural and behavioral Testing?
- 205 What are Integration Testing and Regression Testing?
- 206 When should testing Start in a project? Why?
- 207 Considering the following pseudo-code, calculate the MINIMUM number of test cases for statement coverage, and the MINIMUM number of test cases for decision coverage respectively.

a.

READ A

READ B

READ C

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IF C>A THEN

IF C>B THEN

PRINT "C must be smaller than at least one number"

ELSE

PRINT "Proceed to next stage"

ENDIF

ELSE

PRINT "B can be smaller than C"

ENDIF

b Read P

Read Q

IF P Q > 100 THEN

Print ?Large?

ENDIF

If P > 50 THEN

Print ?P Large?

ENDIF

c Consider the following:

Pick up and read the newspaper

Look at what is on television

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If there is a program that you are interested in watching then switch the television on and watch the program

Otherwise

Continue reading the newspaper

If there is a crossword in the newspaper then try and complete the crossword

d. IF A > B THEN

C = A ? B

ELSE

C = A B

ENDIF

Read D

IF C = D Then

Print ?Error?

ENDIF

AUTOMATION QUESTIONS

- 208 When to exit Automation testing?
- 209 What are the Features & Benefits of Quick Test Pro
- 210 What is the use of Text output value in QTP
- 211 What is keyword view and Expert view in QTP.
- 212 Which environments does QTP support
- 213 Explain the check points in QTP

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- 214 What is Object Spy in QTP
- 215 What is the Diff between Image check-point and Bit map Check point
- 216 How many types of checkpoint exist
- 217 How many types of recording does QTP support
- 218 Which components have you used in Loadrunner
- 219 How many VUsers are required for load testing ?
- 220 What are monitors?
- 221 Explain the check points in QTP?
- 222 What are the Features & Benefits of Quick Test Pro?
- 223 How does QTP identify objects in the application?
- 224 What is Parameterizing Tests?
- 225 What is test object model in QTP?
- 226 What is the Diff between Image check
- 227 How many ways we can parameterize data in QTP?
- 228 What is the file extension of the code file & object repository file in QTP?
- 229 Explain the concept of object repository & how QTP recognizes objects?
- 230 Explain in brief about the QTP Automation Object Model.
- 231 How to Import data from a ".xls" file to Data table during Runtime.
- 232 What scripting language is QTP of?
- 233 What is load testing?
- 234 What is Performance testing?

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- 235 Explain the Load testing process?
- 236 What are the components of LoadRunner?
- 237 What Component of LoadRunner would you use to record a Script?
- 238 What Component of LoadRunner would
- 239 What is a rendezvous point?
- 240 What is a scenario?
- 241 Explain the recording mode for web Vuser script?
- 242 Why do we create parameters?
- 243 What is correlation? Explain the difference between automatic correlation and correlation?
- 245 How do you find out where correlation is required? Give few examples from your projects?
- 246 Where do you set automatic correlation options?
- 247 How do you debug a LoadRunner script?
- 248 What are the changes you can make in run
- 249 Where do you set Iteration for Vuser testing?
- 250 How do you perform functional testing under load?
- 251 What is Ramp up? How do you set this?
- 252 What is the advantage of running the Vuser as thread?
- 253 If you want to stop the execution of your script on error, how do you
- 254 What is the relation between Response Time and Throughput?
- 255 Explain the Configuration of your systems?

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- 256 How do you identify the performance bottlenecks?
- 257 . If web server, database and Network are all fine where could be the problem?
- 258 How did you find database related issues?
- 259 Explain all the web recording options?
- 260 What is the difference between Overlay graph and Correlate graph?
- 261 How did you plan the Load? What are the Criteria?
- 262 What does vuser_init action contain?
- 263 What does vuser_end action contain?
- 264 What is think time? How do you change the threshold?
- 265 What is the difference between standard log and extended log?
- 266 Explain the following functions: - lr_debug_message
- 267 Types of Goals in Goal-Oriented Scenario



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