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Software Testing Interview Questions

Chapter 1: Software Testing Basics

- In which Software Life cycle phase does testing occur?
- Can you explain PDCA cycle and where does testing fit?
- What is the difference between white box, black box and gray box testing?
- Define Defect?
- What is the difference between Defect and Failure?
- What are the broader categories of defects?
- What is the difference between Verification and Validation?
- How does testing affect risk?
- Does Increase in testing always mean good to the project?
- As a manager what process did you adopt to define testing policy?
- Should testing be only after build and execution?
- Are number of defects more in design phase or coding phase?

- What kind of inputs do we need from the end user to start proper testing?
- What is the difference between Latent and Masked Defect?
- A defect which could have been removed during initial stage is removed in later stage how does it affect cost?
- In testing can you explain the concept of work bench?
- What's the difference between Alpha and Beta testing?
- Can you explain the concept of defect cascading?
- Can you explain how one defect leads to other defects?
- Can you explain what is Usability testing?
- What are the different strategies of rollout to the end users?
- Can you explain requirement traceability and its importance?
- What is the difference between Pilot and Beta testing?
- How will you do a risk analysis during software testing?
- How do you conclude which section is most risky in your application?
- What does entry and exit criteria mean in a project?
- On what basis is the Acceptance plan prepared?
- What's the relation between environment reality and test phases?
- What are different types of verifications?
- What's the difference between Inspections and Walkthroughs?
- Can you explain regression testing and confirmation testing?
- What do you mean by coverage and what are the different types of coverage techniques?
- How does fundamentally a coverage tool work?
- What is configuration management?
- Can you explain the concept of baseline in software development?
- What are the different test plan documents in project?
- How do test documents in a project span across software development life cycle?
- Can you explain inventories?
- How do you do Analysis and design for testing projects?
- Can you explain calibration?
- Which test cases are first written white boxes or black box?
- Can you explain Co-habiting software?
- What different impact rating's you have used in your project?
- Can you explain what a test log is?
- Explain SDLC (Software development Life Cycle) in detail?
- Can you explain waterfall model?
- Can you explain big-bang waterfall model?
- Can you explain phased waterfall model?
- Explain Iterative model, Incremental model, Spiral model, Evolutionary model and V-Model?
- Explain Unit testing, Integration tests, System testing and Acceptance testing?
- What's the difference between system and acceptance testing?
- Which is the best model?
- What group of teams can do software testing?

Chapter 2: Testing techniques

- Can you explain boundary value analysis?
- What is BV in software testing?
- Can you explain Equivalence partitioning?
- Can you explain how state transition diagram can be helpful during testing?
- Can you explain random testing?
- Can you explain monkey testing?
- What is negative and positive testing?
- Can you explain exploratory testing?
- What exactly are semi-random test cases?
- Can you explain the concept of orthogonal array?
- Can you explain pair-wise defect fundamental?
- Can you explain the concept of decision tables?
- How did you define severity ratings in your project?

Chapter 3: Software process

- What is a Software process?
- What are the different cost element involved in implementing process in an organization?
- What is a model?
- What is maturity level?
- Can you explain the concept of process area in CMMI?
- Can you explain the concept of tailoring?

Chapter 4: CMMI

- What is CMMI and what's the advantage of implementing CMMI in an organization?
- What's the difference between implementation and Institutionalization?
- What are different models in CMMI?
- Can you explain staged and continuous models in CMMI?
- Can you explain the different maturity levels in staged representation?
- Can you explain capability levels in continuous representation?
- Which model should we use and under what scenarios?
- How many process areas are present in CMMI and in what classification do they fall in?
- What the difference between every level in CMMI?
- What different sources are needed to verify authenticity for CMMI implementation?
- Can you explain SCAMPI process?
- How is appraisal done in CMMI?
- Which appraisal method class is the best?
- Can you explain the importance of PII in SCAMPI?
- Can you explain implementation of CMMI in one of the Key process areas?
- Explanation of all process areas with goals and practices?
- Can you explain the process areas?

Chapter 5: Six Sigma

- What is six sigma?
- Can you explain the different methodology for execution and design process in SIX sigma?
- What does executive leaders, champions, Master Black belt, green belts and black belts mean?
- What are the different kinds of variations used in six sigma?
- Can you explain the concept of standard deviation?
- Can you explain the concept of fish bone/ Ishikawa diagram?
- Can you explain QFD?
- Can you explain FMEA?
- Can you explain X bar charts?
- Can you explain Flow charting and brain storming?

Chapter 6: Metrics

- What is meant by measure and metrics?
- Can you explain Number of defects measure?
- Can you explain number of production defects measure?
- Can you explain defect seeding?
- Can you explain DRE?
- Can you explain Unit and system test DRE?
- How do you measure test effectiveness?
- Can you explain Defect age and Defect spoilage?

Chapter 7: Automated Testing

- What are good candidate for automation in testing?
- Does automation replace manual testing?
- Which automation tool have you worked and can you explain them in brief?
- Can you explain how does load testing conceptually work for websites?
- Can you explain how did you perform load testing using tool?
- What does load test summary report contain?
- Can you explain the concept of data-driven testing?
- Can you explain table-driven testing?
- How can you perform data-driven testing using Automated QA?

Chapter 8: Testing Estimation

- What are the different ways of doing black box testing?
- Can you explain TPA analysis?
- Can you explain in brief Function points?
- Can you explain the concept Application boundary?
- Can you explain the concept of elementary process?
- Can you explain the concept of static and dynamic elementary process?
- Can you explain concept of FTR, ILF, EIF, EI, EO, EQ and GSC?
- How can you estimate number of acceptance test cases in a project?
- Can you explain on what basis does TPA actually work?
- How did you do estimation for black box testing?

- How did you estimate white box testing?
- Is there a way to estimate acceptance test cases in a system?