

**ASTQB Certified Tester  
Advanced Test Management v3.0  
Sample Exam Questions**



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American Software Testing Qualifications Board

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**88 possible points. Passing score is 58.**

**1. Which of the following is the most complete answer for who needs to accept the test plan?**

- a. All company executives and the steering group
- b. All vendors and their developers
- c. All end users
- d. All stakeholders

**2. When does testware handover occur?**

- a. During test planning
- b. During test monitoring
- c. During test completion
- d. During test control

**3. In the stakeholder quadrants, which of the following is classified as “Low Influence, High Interest”?**

- a. Promoters
- b. Latents
- c. Defenders
- d. Apathetics

**4. What is the difference in dashboard usage between a V-model project and a Scrum project?**

- a. V-model requires it, Scrum project does not use it
- b. V-model can use it, Scrum project must use it
- c. V-model must use it, Scrum project can use it
- d. V-model doesn't use it, Scrum project does not use it

**5. At what testing level are test management responsibilities shared with the development team?**

- a. Component Integration testing
- b. System testing
- c. System Integration testing
- d. Acceptance testing

**6. You are researching tools to determine the best accessibility testing tool available. What type of testing are you helping facilitate?**

- a. Black-box
- b. White-box
- c. Functional
- d. Non-functional

- 7. Your team is working on testing the software for an exciting new medical device which will dramatically improve the outcomes from cardiac surgery. The testing has strictly followed the requirements which were approved and signed off by the appropriate stakeholders. You have implemented standards for the depth of test cases as well as plans for the various types of non-functional testing that are required.**

**Given this information what else do you urgently need to be investigating and reviewing for testing impacts and risks to the testing process?**

- a. The production implementation plan to ensure there will be adequate time for testing during the rollout
- b. The acceptance test procedure and steps required by the users to provide their acceptance
- c. The security test plan and contract with the security testing organization
- d. The risk mitigation required to meet applicable regulations and standards for testing this type of medical software

- 8. You have taken over a project that is a mess. The testing was being done entirely by the onsite team who was working closely with the developers and BAs. Someone in management decided it was too expensive to do testing that way, so they have required that at least half the testing be assigned to the offshore team. This offshore team has just been assembled and no one has worked with them before. There are good tools in place for test management and defect tracking, so information sharing should be straightforward. There is a project manager for the offshore team who will facilitate communications. The onsite team is unsure what to do or how to allocate work to the offshore team.**

**What should you do now to help the project move forward?**

- a. Remove the offshore team and go back to the totally onsite model which will be less expensive in the long run
- b. Develop a test team configuration plan so the team knows who is responsible for what
- c. Develop an offshore test plan so the offshore team can follow the same processes as the onsite team
- d. Elect an offshore test team manager who can be your counterpart

- 9. Which of the following is a way in which risk analysis drives test execution?**
- a. It determines which tests should be executed first
  - b. It guides the selection of test conditions that must be covered by testing
  - c. It influences the format of the test summary report that will be written at the end of the testing
  - d. It drives root cause analysis for any defects found
- 10. Which of these is a factor that influences the likelihood of a risk occurring?**
- a. Geographically distributed team
  - b. Damage to reputation
  - c. Safety
  - d. Legal sanctions

- 11. You are managing the testing for a bank card project. The testing was scheduled to take 10 weeks but by the time the software was developed, only six weeks was available for testing. Knowing there were a lot of risks with the software, your team started testing activities early by overseeing code reviews, defining acceptance criteria by working with the users and by doing all test creation prior to the code arriving.**

**You are now three days away from the go-live date. Your testing has mitigated all the high and medium risk items, leaving only the low-risk elements unmitigated by testing. You estimate it will take two weeks to manually test the low-risk elements. At this point, what should you do?**

- a. Automate the testing of the untested elements to ensure they are covered
- b. Block the go-live and start testing the low-risk elements immediately
- c. Perform breadth testing for the low-risk items to assess the residual risk
- d. Select one of the low-risk elements and perform depth testing to assess the residual risk

- 12. You are managing the test team that is testing a new mobile application that provides a “step-by-step” hiking guide. Your risk assessment resulted in the following table:**

| Risk Level | Test Object          | Mitigation   |
|------------|----------------------|--|
| Very high  | Accuracy of GPS data | Test for accuracy within 3 feet                        |
| High       | Usability            | Perform usability analysis                             |
| Medium     | Trail finder         | Test for access to information on all supported trails |
| Low        | Feedback page        | Test for access to feedback page and capture of data   |

**What type of testing needs to be applied to the accuracy of the GPS data?**

- Breadth testing across a wide sample of scenarios, depth testing for the accuracy of the information in any particular set of conditions
- Usability of the GPS data
- Coordination of the information in the GPS data and the trail finder
- Expert testing conducted by a sample set of users with extensive back country hiking experience paired with deep usability testing experience



- 13. You have just completed a project and have released it to production. Even though you applied a risk-based approach, there were significant problems found in production. After further analysis you have determined that key risks were missed in the risk analysis. What should be done for future projects to ensure this does not happen again?**
- a. Be sure that the risk mitigation is consistently monitored during testing
  - b. Verify that testing is aligned with the risk mitigation goals of the project
  - c. Be sure the right people are involved in the risk analysis, so a wider set of information is used to identify and prioritize the risks
  - d. Verify that the testing techniques being used are appropriate to identify the risk items and check that reporting was accurate
- 14. Which of the following is required to apply a white-box testing approach?**
- a. Detailed requirements
  - b. Usage models
  - c. Access to the internal structure of the test object
  - d. A full risk-assessment to support risk prioritization

- 15. Your team has been assigned to test a loyalty card program for a supermarket chain. Because this is a highly competitive market, significant investment has been made to determine the shortcomings of the products offered by competitors. Several features have been identified as having a high impact on the user experience and the project team wants to prioritize the testing of these features to ensure there are no failures. Testing time is quite limited, so you want to be sure you use the time efficiently.**

**Given only this information, what test approach would be most appropriate?**

- a. Model-based
- b. Experience-based
- c. Risk-based
- d. Requirements-based

- 16. Your team has been assigned to test a new product that processes blood tests and flags any anomalies. This software must be approved by the FDA prior to release into production. Given this information, what testing approach is the most appropriate?**

- a. Risk-based
- b. Risk-based plus regulatory
- c. Model-based
- d. Model-based plus experience-based

- 17. Once again, your team has released a product to production that has inadequate security. Only system administrators should be allowed to access some functionality, but in fact everyone can access everything. You have set the following goal for the next release:**

**“All access rights will be tested against the allowed functionality, according to the access matrix.”**

**Which of the following is likely an issue with this goal being defined as “SMART”?**

- a. It is not clear if this is achievable in the time allowed
- b. It is not specific on what needs to be done
- c. It is not relevant to the project objectives
- d. It is not measurable against the goals of the project

- 18. You have decided that your team should implement better quality practices. You have told them that every test case will have a status of “unreviewed” until it has been peer reviewed and approved by at least one other tester. When the review is complete, the status will be updated to “reviewed” and the test case can be executed. Your team is not happy about this rule, and they feel they are being punished for a problem that does not exist – in this case, low quality test cases.**

**According to the SMART goals, according to your team, what is missing from this goal that you have set?**

- a. It is not specific
- b. It is not measurable
- c. It is not achievable
- d. It is not relevant

- 19. What is the purpose of the IDEAL model?**

- a. To ensure goals are clear and achievable
- b. To support process improvement initiatives
- c. To classify and mitigate risk in testing
- d. To provide a skillset evaluation standard

- 20. Which of the following is a characteristic of an analytical-based test process improvement model?**
- a. It is based on comparison to external best practices
  - b. It defines best practices
  - c. It uses only quantitative data
  - d. It is reliant on data analysis
- 21. Your project has been having retrospectives for the last two months. Each meeting results in a list of improvements to make, but at least 80% of the improvements are the same from meeting to meeting. What step in the process is missing?**
- a. Collecting data
  - b. Identifying improvements
  - c. Determining causes
  - d. Deciding on improvement actions
- 22. You have been getting ready to attend a retrospective meeting. One of the issues you want to raise is that the developers are rejecting defect reports saying there is not enough information, even though the information is actually provided. What data could you bring to the meeting to support your concerns?**
- a. The number of times a defect is rejected by the developers
  - b. The number of defects rejected by the developers for lack of information
  - c. The number of defects closed by testers
  - d. The number of defects that are fixed by developers

**23. Which type of tool is usually the least expensive?**

- a. COTS
- b. Open-source
- c. Custom or home-grown
- d. Project management

**24. Your manager has decided that your team of manual testers should all become test automation engineers. Your team is much stronger in analysis than in technical testing, so you are concerned about their ability to adapt. When evaluating tool vendors, which of the following would be helpful in this situation?**

- a. Low license costs
- b. Remote storage of the test automation scripts
- c. Free online training and support
- d. Tools that are java-based

**25. Your team has been assigned to test a mobile application. The application has been developed by a vendor who is continually making changes. There is a high incidence of regressions. Your team does not have the time or experience to implement test automation, but everyone agrees it is needed. As a result, you have decided to have a third-party testing organization implement the test automation using the tool you have selected. They are on schedule to complete the automation within budget.**

**What should be your main concern now?**

- a. Who will maintain/update the automation code
- b. Will your testers be insulted now that there is automation available
- c. With faster cycles for regression testing, will there be a push to eliminate manual testing roles
- d. What happens if the automated tests find issues the manual testing has missed

**26. How can code coverage information help testing?**

- a. It indicates the important areas for testing
- b. It indicates the most commonly used code segments
- c. It indicates which parts of the code still need to be tested
- d. It indicates how many defects have been found per line of code

- 27. Which group of metrics is used to measure achievement of test objectives?**
- a. Test planning metrics
  - b. Test monitoring metrics
  - c. Test control metrics
  - d. Test completion metrics
- 28. You are halfway through testing a project and you want to know if you are on schedule. Which of the following metrics can help you determine if your progress is adequate?**
- a. Number of requirements tested vs still untested
  - b. Number of test cases executed vs not executed
  - c. Number of defects found vs expected to be found
  - d. Number of budget dollars used
- 29. What is a problem with having a target metric of 95% for passed test cases for high-risk items?**
- a. It is very difficult to calculate accurately
  - b. You do not know if the 5% not tested might be critical
  - c. It does not consider the overall failure number for all test cases
  - d. Outstanding defects are not included in the calculation



**30. You have been tracking some cost of quality metrics and you are seeing that defects are consistently being introduced at two or three test levels before they are being found. For example, you found that 40% of the defects were introduced in development but were not caught until system testing.**

**Ideally, if a defect is introduced during coding, where should it be found?**

- a. In requirements reviews
- b. In unit testing
- c. In integration testing
- d. In system testing

**31. When making test estimates, which of the following is the most necessary resource?**

- a. Test environments
- b. Test data
- c. Testers
- d. Test results

**32. You are working on an Agile project and plan to use an expert-based technique to perform the estimation for a set of sprints. Which technique allows you to use the expertise in the team to create the estimation?**

- a. Burndown chart
- b. Three-point estimation
- c. Planning poker
- d. Estimation based on ratios

**33. You have been asked to estimate a project. You know that your team will normally make 10 test cases for a high-risk test item, 5 for a medium risk, and 1 for a low risk. You also know it takes your team, on average, 1 hour to create a test case and 2 hours to execute one (that includes the time required to setup the preconditions). You have estimated there will be 530 defects found and, on average, you know your team spends 5 hours per defect (finding it, reproducing, writing it up, retesting the fix). You know how many risk items there are, and you know their classification.**

**Given all this information, what estimation method should you use?**

- a. Estimation based on ratios
- b. Burndown charts
- c. Wideband delphi
- d. Three-point estimation

**34. You have noticed a concerning trend that defects that cannot be fixed with a release are being Closed. This means they are not being reviewed for future fixing when the open defects are reviewed. What type of status should you use, that will allow you to track these defects effectively until they are either fixed or the decision is made to never fix them?**

- a. Deferred
- b. Open
- c. Re-Open
- d. Rejected

**35. You are having issues with developers rejecting defect reports when they have a question regarding the steps that were taken to make the failure occur. This is resulting in frustration from the testers and a significant amount of re-opening rejected defect reports. What would help to clarify the process and alleviate some of the frustration?**

- a. Do not allow developers to reject defect reports
- b. Add a status “Information Needed” that can be used by the developers when they have questions
- c. Add a status “Blocked” that can be used by the developers when they have questions
- d. Implement a review step for every defect report that must be followed before it is created

**36. Why should project management be included in the defect management committee?**

- a. They usually manage the schedule and budget, and defect fixes may have budget and schedule impact
- b. They own the defect process and can control the flow of defects into the process
- c. They are responsible for quality
- d. They know the number of defects that are allowed for a project and can cut off the flow as needed

**37. When does a defect report become a backlog item in an Agile project?**

- a. When it cannot be fixed in the current sprint
- b. When the developer does not want to fix it
- c. When the defect cannot be fixed
- d. When the defect was written in error

**38. What is the product owner's contribution to defect management meetings?**

- a. Clarifying the priority of the fix from the user's perspective
- b. Setting the timeline for the fix
- c. Discussing technical solution options
- d. Determining root cause

**39. When is the change history needed when looking at efficient defect management?**

- a. It can be used to determine the time between status changes, such as open to closed
- b. It can be used to determine how many defects are open for a given area of the software
- c. It can be used to determine how quickly the opened and closed trends are converging
- d. It can be used to determine which non-functional areas require additional testing

**40. You are reviewing a defect database and you have found a disturbing trend in the data. Despite there being many dropdown lists for the tester to use when writing the defect report, the testers are just taking the default values. This is resulting in the reporting showing that all defects are due to Logic Errors (the first item in the root cause list) and found during Unit Testing (the first item in the test level list) and are in the Data component (the first item in the component list).**

**What should you do about this to ensure the data is more accurate?**

- a. Remove the fields from the defect management tool
- b. Autofill the data based on preferences set by the user
- c. Review the number and type of fields required when creating a defect and remove any that are not specifically needed
- d. Remove all dropdown lists and allow free form text to be entered by the creator of the defect report

- 41. Which of the following defect statistics will provide input to be used for reducing the cost of quality?**
- a. Number of defect reports re-opened
  - b. Number of defects in a particular area of the code
  - c. Number of defect reports rejected by the developers
  - d. Number of defects found in a phase later than they were introduced
- 42. You have an ongoing issue with one of your team members. He really likes to talk and does not take hints from others that they are tired of listening and need to get back to work. Given this information, in what competence area does this person need to improve?**
- a. Professional competence
  - b. Methodical competence
  - c. Social competence
  - d. Personal competence

- 43. You are conducting a large UAT effort with about 20 business SMEs. Your team will be working closely with these folks to understand what needs to be tested, to document the tests in the test management system, to record any defects found, and to train the users in testing.**

**Given this information, what three competence areas will be the most important for your team to possess?**

- a. Professional, methodical, social
  - b. Social, personal, methodical
  - c. Personal, professional, methodical
  - d. Social, personal, professional
- 44. You are managing a technical team of software testers. You have noticed that some of them are willing to learn any new tool or technology where others are much less likely to step forward to build their knowledge and skills. What is likely lacking in those who do not want to learn?**
- a. Professional competence
  - b. Methodical competence
  - c. Social competence
  - d. Personal competence

- 45. You want to evaluate your team's social competence. Which of the following would be the best activity to provide you the information you need?**
- a. Develop a state transition table from a supplied set of requirements
  - b. Bake a cake and share it with the team
  - c. Build a matchstick bridge working as a team
  - d. Write a short introduction for themselves and read it to the team
- 46. Self-study is best used to develop which competency?**
- a. Social
  - b. Professional
  - c. Personal
  - d. Biological
- 47. Which of the following is a hygiene factor for test teams?**
- a. Regular bathing
  - b. Good working conditions
  - c. Recognition for work done
  - d. Autonomy in task completion



**48. Which of the following is an example of an external failure cost?**

- a. Damage to the environment
- b. Bringing on contractors to help with test execution
- c. Redefining the flow of code into the test environment to reduce false positives
- d. Fixing defects found during testing

**49. You have assembled the following cost of quality numbers. 1000 defects were found prior to release and 100 were found after.**

| Average Cost      | Amount   | # of Defects | Total Cost |
|-------------------|----------|--------------|------------|
| Defect prevention | \$50,000 | N/A          | \$50,000   |
| Appraisal         | \$250    | 1000         | \$250,000  |
| Internal failure  | \$200    | 1000         | \$200,000  |
| External failure  | \$5000   | 100          | \$500,000  |

**Given this information, what is the total cost of quality for this project?**

- a. \$1,000,000
- b. \$500,000
- c. \$300,000
- d. \$0

- 50. You have assembled the following cost of quality numbers. 1000 defects were found prior to release and 100 were found after.**

| Average Cost      | Amount    | # of Defects | Total Cost  |
|-------------------|-----------|--------------|-------------|
| Defect prevention | \$50      | N/A          | \$50,000    |
| Appraisal         | \$250     | 1000         | \$250,000   |
| Internal failure  | \$200     | 1000         | \$200,000   |
| External failure  | \$100,000 | 10           | \$1,000,000 |

**Given this information, what should you conclude?**

- Testing was highly effective and the cost is fully justified by the low number of high cost external failures
- More effort was needed in testing to drive the external failure number down further
- Less testing will be acceptable for the next release given that only 1% of defects escaped
- More releases are needed so fixes can be quickly released to production to resolve the 10 defects