

Basics of Software Testing

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1 Exam questions

1. Q — Which of the following are characteristic of regression testing
A — Regression testing is used after fixes have been made
A — Regression testing is often automated
2. Q — Which test design technique relies heavily on prior thorough knowledge of the system?
A — Data driven testing technique
A — Experience-based technique
3. Q — What is the MAIN benefit of designing tests early in the life cycle?
A — It helps prevent defects from being introduced into the code
4. Q — Which of the following is in the correct order (typically)?
A — Unit testing, system testing, acceptance testing, maintenance testing
5. Q — When is testing complete?
A — When there are no remaining high priority defects outstanding
6. Q — The effect of testing is to:
A — Give an indication of software quality
7. Q — What determines the level of risk
A — The cost of dealing with an adverse event if it occurs
A — The likelihood of an adverse event and the impact of the event
8. Q — Who is responsible for documenting all the issues, problems and open points that were identified during the review meeting?
A — Scribe
9. Q — What is integration testing?
A — Testing performed to expose faults in the interaction between components and the system
10. Q — Which of the following requirements is testable?
A — The response time shall be less than one second for the specified design load
11. Q — Which is NOT a Scrum role?
A — Product Coordinator
12. Q — What is the MAIN aim of Sprint Planning?
A — Pull the stories the Sprint
13. Q — Which of the following is a benefit of the test independence?
A — It avoids author bias in defining effective tests
14. Q — A thermometer measures temperature in whole degrees only. If the temperature falls below 18 degrees, the heating is switched on. It is switched off again when the temperature reaches 21 degrees. What are the best values in degrees to cover all equivalence partitions?
A — 15, 19 and 25

15. Q — Order numbers on a stock control system can range between 10000 and 99999 inclusive. Which of the following inputs might be a result of designing tests for only valid equivalence classes and valid boundaries

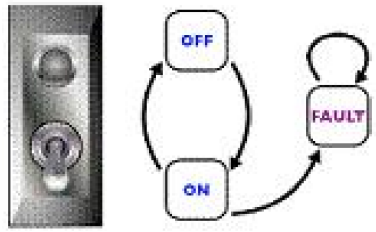
A — 9999, 10000, 50000, 99999, 100000

16. Q — Given the following decision table: Which of the following test cases and expected results is VALID?

Conditions	Rule 1	Rule 2	Rule 3	Rule 4
Age	<21 yrs	21–29 yrs	30–50 yrs	>50 yrs
Insurance Class	A	A or B	B, C or D	C or D
Actions				
Premium	\$100	\$90	\$70	\$70
Excess	\$2,500	\$2,500	\$500	\$1,000

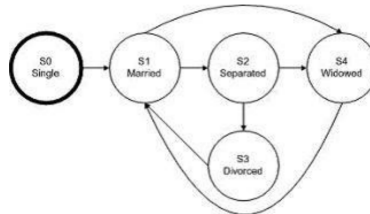
A — 23 year old in insurance class A Premium is \$90 and excess is \$2,500

17. Q — Consider the following state transition diagram of a switch. Which of the following represents an invalid state transition?



A — FAULT to ON

18. Q — Without testing all possible transitions, which test suite will test all marital statuses?



A — S0-S1-S4-S1-S2-S3

19. Q — Which of the following statements about the benefits of deriving test cases from use cases are true?

A — Deriving test cases from use cases is helpful for system and acceptance testing.