

⚠ This quiz has been regraded; your score was not affected.

Final Exam

Due Dec 2, 2020 at 10:25am

Points 100

Questions 25

Available until Dec 2, 2020 at 10:25am

Time Limit 85 Minutes

This quiz was locked Dec 2, 2020 at 10:25am.

Attempt History

| | Attempt | Time | Score | Regraded |
|---------------|-------------------------|------------|---------------|---------------|
| LATEST | <u>Attempt 1</u> | 14 minutes | 84 out of 100 | 84 out of 100 |

⚠ Correct answers are no longer available.

Score for this quiz: **84** out of 100

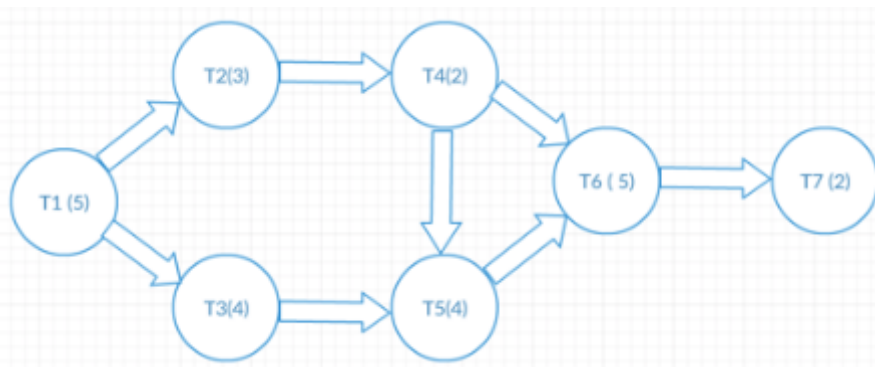
Submitted Dec 2, 2020 at 9:16am

This attempt took 14 minutes.

Question 1

4 / 4 pts

Given the following PERT chart, what is the minimum time to complete this project with the critical path?



☐ 20

☐ 25☒ 21☐ 17**Question 2****4 / 4 pts**

Which of the following statements best characterizes how a test coordinator would utilize the results of risk analysis in risk based testing?

☒

Test high risk areas early in the test schedule and more thoroughly than others

☐

Test high risk areas early in the test schedule and less thoroughly than others since they are likely to change

☐

Ensure all areas of the system are tested equally and high risk tests are only executed if time permits

☐

Test high risk areas late in the test schedule and more thoroughly than others

Question 3**4 / 4 pts**

Risk Based testing prioritizes the Risk Exposure of a feature defined as:

- ☐ severity of feature failure
- ☒ (probability of a failure) * (consequences of failure)
- ☐ cost of feature failure in terms of dollars
- ☐ (probability of a failure) + (consequences of failure)

Incorrect**Question 4****0 / 4 pts**

Which of the following is not a factor in the PORT Test Efficiency through Test Prioritization technique:

- ☐ requirements volatility
- ☐ cost of testing
- ☐ fault proneness of requirement
- ☒ customer assigned priority

Question 5**4 / 4 pts**

Given the following earned values, is the project over, on, or under budget?

BCWS = 400

BCWP = 200

ACWP = 300

- ☐ On budget

☒ Over budget

☐ Under budget

Question 6

4 / 4 pts

Given the following tasks and earned values, is the project ahead of, on, or behind schedule after week 1?

| | | | |
|----|----|----|----|
| 1A | 30 | 2A | 40 |
| 1B | 30 | 2B | 50 |
| 1C | 30 | | |

Week 1 To be Completed: 1A, 1B, 1C

Week 1 Actually Completed: 1A, 1B, 2A at a cost of 100

☐ On schedule

☒ Ahead of schedule

☐ Behind schedule

Question 7

4 / 4 pts

Which of the following is a criteria which favors an outsourced staffed testing model versus in house testing?

- ☐ Project requirements are changing frequently
- ☒ Project requirements are stable
- ☐ Testing requires close interaction with development team
- ☐ Project requires high quality

Question 8**4 / 4 pts**

Which of the following would not be included in a testing outsourcing statement of work?

- ☒ fixes for defects found
- ☐ test documentation that must be produced
- ☐ types of testing to be performed
- ☐ testing tools that must be utilized

Question 9**4 / 4 pts**

Which of the following best describes the relationship of cumulative number of failures and testing time during system testing?

- ☐ The cumulative number of failures remains constant over time
- ☐ The cumulative number of failures decreases over time



The cumulative number of failures increases over time and then decreases



The cumulative number of failures increases over time and then levels off

Question 10

4 / 4 pts

In measuring failure intensity, which of the following is the best measure of time?



Clock time of testing



CPU hours of testing



Person hours of testing



Number of people testing

Question 11

4 / 4 pts

Which of the following best describes the relationship of failure intensity and testing time during system testing?



Failure intensity increases over time and then levels off



Failure intensity increases over time



Failure intensity normally decreases over time



Failure intensity remains constant over time

Question 12**4 / 4 pts**

Which of the following statements best describes operational profile testing?

- ☒ Operational profile testing tests features based on how they are used by customers
- ☐ Operational profile testing provides a high degree of code coverage
- ☐ Operational profile testing is best performed during unit testing
- ☐ Operational profile testing tests features that are used least by users

Question 13**4 / 4 pts**

Which of the following types of testing is best for verifying whether the behavior of the system can meet its requirements when the system is subjected to a large amount of activity over an extended period of time?

- ☐ Regression testing
- ☐ Stress testing
- ☒ Volume testing
- ☐ Security testing

Question 14**4 / 4 pts**

What is the purpose of configuration testing?

☐

To verify that functional requirements are met for different configurations for the system

☐

To verify that functional and performance requirements are met for at least one of the system configurations

☒

To verify that functional and performance requirements are met for all configurations for the system

☐

To verify that performance requirements are met for different configurations for the system

Question 15**4 / 4 pts**

Which of the following is an example of a software serviceability requirement?

☒

The software should be fixed within 100 hours after a defect is reported

☐

The software shall be available 99.9% of the time

☐

The software MTBF should be 100 hours

☐

The software should be able to handle 500 users

Incorrect**Question 16****0 / 4 pts**

Which of the following best describes the relationship between reliability and availability?

- ☐ Low availability implies low reliability
- ☐ High availability and low reliability can exist together
- ☒ High availability implies high reliability
- ☐ High availability implies low reliability

Incorrect**Question 17****0 / 4 pts**

Which of the following is not a factor to consider in estimating the time that it will take to adequately test a software application?

- ☐ Desired quality level
- ☐ Planned delivery date
- ☐ Number of product requirements
- ☒ Experience of the test team

Question 18**4 / 4 pts**

Which of the following best describes how a testing organization might utilize the GQM paradigm?

- ☐ Use GQM to appease stakeholder wishes
- ☒ Use GQM to reduce testing time and improve test effectiveness
- ☐ Use GQM to ensure code coverage
- ☐ Use GQM to ensure all requirements are tested

Incorrect

Question 19 Original Score: 4 / 4 pts **Regraded Score: 4 / 4 pts**

⚠ This question has been regraded.

Which of the following is a false statement regarding reliability prediction models?

- ☒ Prediction models are used prior to test generation
- ☐ Prediction models utilize operational profile testing
- ☐ Prediction models make assumptions about defect repairs introducing new failures
- ☐ Prediction models generally follow mathematical distributions

Question 20

4 / 4 pts

Which of the following is a false statement regarding reliability growth models?

- ☐ Growth models help to determine when to stop testing

- ☒ Growth models do not use failure intensity as a reliability measurement
- ☐ Growth models show how reliability changes over time
- ☐ Growth models require that the right data is collected during testing

Question 21**4 / 4 pts**

A confidence test suite in selective regression testing does not need to address which of the following?

- ☐ High frequency test cases
- ☐ Functional breadth
- ☐ Critical functionality
- ☒ Low frequency test cases

Question 22**4 / 4 pts**

Which of the following is not part of the criteria for reviewing an incident report?

- ☐ ensuring incident report contains severity evaluation
- ☐ assess for repeatability
- ☒ ensuring incident report contains priority
- ☐ assess for clarity

Question 23**4 / 4 pts**

Which of the following is a false statement regarding defect severity and defect priority?

- ☒ All high severity defects are also high priority
- ☐ One component of defect priority is based on the effort needed to repair the defect
- ☐ Some high severity defects might be low priority
- ☐ One component of defect severity is its impact on the customer

Question 24**4 / 4 pts**

Which of the following best describes a test case per the IEEE standard?

- ☐ A test case must be formal
- ☐ A test case is targeted towards a particular error type
- ☐ A test case needs output specifications but not necessarily input specifications
- ☒ A test case must have both input and output specifications

Incorrect**Question 25****0 / 4 pts**

Which of the following is not a strategy to analyze what went wrong during a retrospective/post mortem?

- ☐ Investigating major problems
- ☐ perform regression testing
- ☐ Understanding team interactions
- ☒ Interviews with important people involved

Quiz Score: **84** out of 100