

Test Management: Part II

Software Testing: INF3121 / INF4121

Summary: Week 7

Test **organisation**

Independence | Tasks of the test leader and testers

Test **planning** and **estimation**

Activities | Entry and exit criteria | Estimation | Strategy and approach

Test **progress** monitoring and **control**

Configuration and **management**

Risk and testing



Part I: Close-ended questions

Question 1

Which of the following **metrics** would be most **useful** to **monitor** during **test execution**?

- a. Percentage of test cases written
- b. Number of test environments remaining to be configured
- c. Number of defects found and fixed
- d. Percentage of requirements for which a test has been written



Question 2

In a test **summary report**, the project's test leader makes the following statement:

*“The payment processing **subsystem** fails to **accept payments** from American Express cardholders, which is considered a **must-work feature** for this release.”*

This statement is likely to be found in which **section**?

- a. Evaluation
- b. Summary of activities
- c. Variances
- d. Incident description

Question 3

During an **early** period of test **execution**, a **defect** is **located**, **resolved** and **confirmed** as resolved by **re-testing**, but is seen again later during **subsequent** test execution.

Which of the following is a **testing-related** aspect of **configuration management** that is most likely to have **broken** down?

- a. Traceability
- b. Confirmation testing
- c. Configuration control
- d. Test documentation management



Question 4

You are working as a tester on a project to **develop** a **point-of-sales** system for grocery stores. Which of the following is a **product risk** for such a project?

- a. Arrival of a more reliable competing product on the market
- b. Delivery of an incomplete test release to the first cycle of system test
- c. An excessively high number of defect fixes fail during re-testing
- d. Failure to accept allowed credit cards

Question 5

A **product risk analysis** meeting is held during the **planning** period. Which of the following **determines** the **level of risk**?

- a. Difficulty of fixing related problems in code
- b. The harm that might result to the user
- c. The price for which the software is sold
- d. The technical staff in the meeting



Question 6

You are writing a **test plan** using the **IEEE 829** template and currently completing the **Risks** and **Contingencies** section.

Which of the following is most likely to be listed as a **project risk**?

- a. Unexpected illness of a key team member
- b. Excessively slow transaction-processing time
- c. Data corruption under network congestion
- d. Failure to handle a key use case

Question 7

You and the project stakeholders **develop** a **list** of **product** risks and **project risks** during the **planning** stage of a project. What **else** should you **do** with those **lists** of **risks** during test **planning**?

- a. Determine the extent of testing required for the product risks and the mitigation and contingency actions required for the project risks
- b. Obtain the resources needed to completely cover each product risk with tests and transfer responsibility for the project risks to the project manager
- c. Execute sufficient tests for the product risks, based on the likelihood and impact of each product risk and execute mitigation actions for all project risks
- d. No further risk management action is required at the test planning stage

Question 8

According to the **ISTQB Glossary**, a **product risk** is related to which of the following?

- a. Control of the test project
- b. The test object
- c. A single test item
- d. A potential negative outcome



Question 9

Typical **test strategies** include:

1. **Risk-based** testing
Testing directed to areas of greatest risk
2. **Failure-based** testing
Test more in failure-prone areas
3. **Management-directed** testing
Test first the areas indicated by the org. management

Which are **true** and which are **false**?



Question 10

In an **incident report**, the tester makes the following statement:

"At this point, I expect to receive an error message explaining the rejection of this invalid input and asking me to enter a valid input. Instead, the system accepts the input, displays an hourglass for between one and five seconds, and finally terminates abnormally, giving the message [Unexpected data type: 15. Click to continue]"

This **statement** is likely to be **found** in which of the following **sections** of an **IEEE 829** Incident Report?

- a. Summary
- b. Impact
- c. Item pass / fail criteria
- d. Incident description



Question 11

According to the **ISTQB Glossary**, what do we call a **document** that describes **any event** that **occurred** during **testing** which requires **further investigation**?

- a. A bug report
- b. A defect report
- c. An incident report
- d. A test summary report



Question 12

A **product risks analysis** is performed during the **planning** stage of the test process. During the **execution** stage, the test manager directs testers to **classify** each **defect** report by the **known product risk** it relates to (or by '**other**').

Once a week, the test manager runs a **report** that **shows** the percentage of **defects** related to each **known product risks**, and to **unknown risks**.

What is one **possible use** of such a **report**?

- a. To identify new risks to system quality
- b. To locate defect clusters in product subsystems
- c. To check risk coverage by tests
- d. To measure exploratory testing

Part II: Exercises and Open-ended questions

Exercise 1

Go to the following **website** and **find** an **incident**:

www.adam.goucher.ca/parkcalc/

Fill out the attached **incident report**



Exercise 1: Incident Report

Date: _____

Project: _____

Tester: _____

Program / Module: _____ Build/Revision/Release: _____

Software Environment: _____ Hardware Environment: _____

Status of the incident: _____

Number of Occurrences: _____ Severity: _____ Impact: _____ Priority: _____

Detailed Description: _____

Expected result / Actual result: _____

Assigned To: _____

Incident Resolution: _____



Exercise 1: Incident Report


Date: 24.02.16
Project: adam.goucher.ea /parkCalc
Tester: Esben

Program/Module: Parking Calculator Build/Revision/Release: _____
Software Environment: Vivaldi 1.0.544.37 Hardware Environment: Macbook Pro
Status of the incident _____

Number of Occurrences: 2 Severity: low Impact low Priority low
Detailed Description: When choosing lot Long-term Garage parking,
and entry time is after exit time, you don't get
an error message, just cost = 0, and a negative time displayed

Expected result / Actual result: Error message expected,
but 0, and negative time is given as result.

Assigned To: Uncle Bob
Incident Resolution: _____



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