# Fundamental Test Process & Test Levels and Types

# Homework

1. Fill in the right term.

2. CASES

3. PLAN

4. ORACLE

1. HARNESS

5. STRATEGY

7. IMPLEMENTATION

6. SUITES

1. Test …… is a collection of software and test data.
2. There are logical and concrete test …….
3. The results from the planning activities should be documented in a test…….
4. To predict the test results you use test …..
5. The main task of planning is to define test…..
6. You group the test cases in a test …..
7. The quantity of tests and the test coverage determine the test ….?

**Test harness** or automated test framework is a collection of software and test data configured to test a program unit by running it under varying conditions and monitoring its behavior and outputs.

*(7 positions X 6 points)* ***42 points***

1. Write down the test levels in correspondence with their level. Start with the basic test level at the bottom of the pyramid.

|  |  |
| --- | --- |
| Letter | Test Level |
| A | **Acceptance testing** |
| B | **System testing** |
| C | **Integration testing** |
| D | **Component testing** |

*(4 positions X 6 points)* ***24*** ***points***

1. Below we have some tasks for the testers in a department of a company. According to the activity described in the left column determine the type of the test they are going to perform.

|  |  |
| --- | --- |
| * Test Activity | * Test Type |
| * Open the main menu, go to Invoices and create new Invoice. Check if the invoice is visible in menu Invoice Journal. | **Functional**, as we are testing invoice according to the entered data. The system is treated as black box. We are testing the output of our entered input. |
| * Open the application and try logging in with invalid credentials. This test is going to be performed after each daily build. | **Risk-based** as the impact of logging with invalid credentials will be serious. Also connected with **regression** testing, as this is functionality, that is supposed to have been working in the previous versions. |
| * Create a test for logging in the application with legal credentials. Create a test to find how many users can log in simultaneously in the system. | **Non-functional** because is connected with performance and load. |
| * Make the same test that revealed a bug before the last build. The developer set the issue to “fixed”. | **Re-testing** is done after fixing as confirmation that the bug is indeed fixed. |
| * Create a unit test for the method AddItem of the class Order. | **Structural** because for unit tests we use the code, it is white-box testing. |
| * Open the test used before the last release for exercising the online help option and change the link to the current location of the help info. | **Maintenance** testing as the help info link has changed due to the release of the new version. |

*(6 positions X 6 points)* ***36 points***