Differentiate Debugging from Testing for LO: LO-1.2.3 ISTQB Exam Question Syllabus Level: CTFL 2010

International Software Testing Qualification Board

General

Author	Thomas Müller	
Date Submitted	8-Jan-10 (reworked 11-Jan-2010)	
Reviewer	Mette Bruhn-Pedersen / Hans Schaefer	
Date Reviewed	9-Jan-10 / 11-Jan-10	

ID (Non-Scenario) Conventional MC (Type A) Question 1.2.3_O1_K2 Description part Question (stem) Which one of the following describes best the difference between testing and debugging? **Correct Answer** A. Testing shows failures that are caused by defects. Debugging finds, analyzes, and removes the causes of failures in the software. **Distracters** B. Testing pinpoints the defects. De bugging analyzes the faults and proposes preventing activities. C. Testing removes faults. Debugging identifies the causes of failures. **D**. Dynamic testing prevents causes of failures. Debugging removes the failures. This is a true false question that requires a clear understanding of the Justification for different activities for getting rid of a wrong behavior of the application. **Correct Answer** 1. It starts with the observation that an observed behavior is wrong (=the failure), writing down the context where the failure can be observed, 2. Pinpointing the failure, in order have as much information about the behavior by using different data, different options, testing variants of the failed tests, and 3. The analyzing the code in order to find the wrong peace of software, and then remove it. A good tester does pinpointing When a defect is reported from field use, developers may do then pinpointing. Wrong is in B: Debugging is not proposing preventive actions. Wrong is in C: Testing does not remove a fault Wrong is in D: Tester prevents not the cause of the failure, and developers do not remove the failure. **Partial Scoring** Reference 1.2 last paragraph Syllabus Ref. LO-1.2.3 Differentiate testing from debugging (K2) Learning **Objective** K-Level] K3, *Apply* ☐ K4, Analyse Reviewer Rejected with comments. Response I think the distracters are not obvious enough. TM: Analyzed proposed changes and worked in changes.

Version 1.0 © International Software Testing Qualifica	Page 1 of 1 tions Board	CTFL-LO-1.2.3_Q1_K2
ISTQB public when released		