

姓名 学号 年级 专业、班 学院

# 重庆大学软件测试理论与方法课程试卷

☒ A卷  
☐ B卷

2015—2016 学年 第二学期

开课学院: 软件学院 课程号: 09009720 考试日期: 2016.06.16

考试方式: ☐ 开卷 ☒ 闭卷 ☐ 其他 考试时间: 120 分钟

题号	一	二	三	四	五	六	七	八	九	十	总分
得分											

## 考试提示

1.严禁随身携带通讯工具等电子设备参加考试; 2.考试作弊, 留校察看, 毕业当年不授学位; 请人代考、替他人考试、两次及以上作弊等, 属严重作弊, 开除学籍。3.请将答案写在答题纸上。

## Part 1: Multiple Choice Questions; Circle the correct answer (only one is correct) (40 Points)

- Software Testing is ( )
  - Installing software and see if it works.
  - The only process that improves the quality of the software.
  - Making sure all the defects in a software system are found.
  - A verification and validation process.
- White box testing is called White box because ( )
  - You need the permission of your manager.
  - The tests need to be documented.
  - The tester needs no programming knowledge.
  - The tester needs programming knowledge.
- Dynamic Testing is ( )
  - Part of Unit Testing.
  - Testing the product together with the customer.
  - Testing software without executing the software.
  - The same as Validating the software.
- Black box testing ( )

- Requires programming knowledge.
  - Is the same as Static Code Analysis
  - Is testing the boundaries of invalid ranges.
  - Aims to test the software's functionality.
- The execution of Dynamic Testing methods ( )
    - Is planned in the System Test plan.
    - Can be done without computers.
    - Cannot be done without computers.
    - Is executed, while the code is still being changed.
  - Testing whether you are able to gain access to an application by using SQL Injection, is called ( )
    - SQL Testing.
    - Stress Testing.
    - Security Testing.
    - Acceptance Testing.
  - Boundary Value Analysis is a test technique ( )
    - That is needed to perform Integration Testing
    - That is used during Static Code Analysis.
    - That can only be used during White Box tests.
    - That tests the boundary values of valid and invalid input ranges.
  - A Virtual Simulation is ( )
    - Is a simulated test environment which runs in real time.
    - Is a simulated test environment in which time can be controlled.
    - Is a simulated test environment which is based on a sequence of events, instead of time.
    - The same as a Test Stub.
  - The Cost Effective-Based Test Prioritization Strategy involves ( )
    - Asking the customer how important the tests are in his opinion.
    - Writing a Test Prioritization Management plan.
    - Analyzing how dangerous the tests would be.
    - Analyzing how expensive the tests would be.
  - A way to do Performance Testing is ( )
    - Overclocking the test PC's.
    - Measuring response times of selected use cases.
    - Observing how the system behaves during large file copying.
    - Doing the test extremely fast.

命题人: 文字

组题人: 文字

审题人: 胡海波

命题时间: 2016.06.16

教务处制

**Part 2: TRUE-FALSE Questions; Check the correct answer.  
(20 Points)**

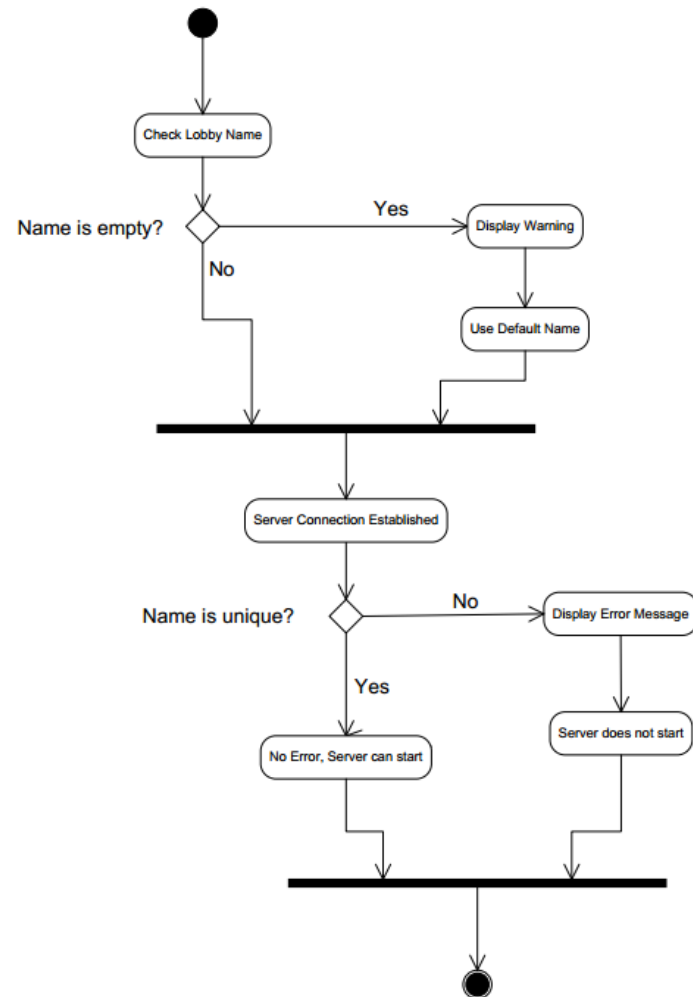
- 1) The best software tester is the same person who also wrote the code for the software. ( )TRUE ( )FALSE
- 2) Debugging software is the same as Black Box Testing. ( )TRUE ( )FALSE
- 3) Static Code Analysis is done during the Customer Acceptance Test. ( )TRUE ( )FALSE
- 4) A system that aims to duplicate the inner workings of the system, while hosted on another system, is called an Emulator. ( )TRUE ( )FALSE
- 5) Testing whether a system can withstand a Denial-Of-Service (DOS) attack is a form of Security Testing.( )TRUE ( )FALSE
- 6) The SQL Injection test technique is used when performing Static Testing. ( )TRUE ( )FALSE
- 7) Fuzz Testing involves randomly clicking around. ( )TRUE ( )FALSE
- 8) Cause-Effect Graphing is a Black Box Test technique. ( )TRUE ( )FALSE
- 9) Semantic Errors are mistakes in the software, which result in wrong system behavior. ( )TRUE ( )FALSE
- 10) Test Reports should contain statement(s) about the reached level of quality. ( )TRUE ( )FALSE
- 11) Multiple requirements combined in one requirement will make the tests more efficient. ( )TRUE ( )FALSE
- 12) A good requirement is always Relevant. ( )TRUE ( )FALSE
- 13) With Usability Testing a tester observes the behavior of the system when large amounts of data are transferred to/from the system. ( )TRUE ( )FALSE
- 14) A Stress Test is a Non-Functional Test. ( )TRUE ( )FALSE
- 15) Peer Reviews are not considered to be part of the Testing Process. ( )TRUE ( )FALSE

- 16) Static Code Analysis aims to prevent mistakes, not to find them. ( )TRUE ( )FALSE
- 17) Static Code Analysis is checking whether the code is programmed correctly against the coding guidelines.( )TRUE ( )FALSE
- 18) Record & Playback tools are used for performing Static Testing on requirements. ( )TRUE ( )FALSE
- 19) Test Scenarios are written as guides for testers to test system functions. ( )TRUE ( )FALSE
- 20) Unit Test Frameworks are tools which help the tester to perform Black Box tests. ( )TRUE ( )FALSE

**Part 3: Review the following requirements; check all that apply. (21 Points)**

- 1) The race game shall have different cars, tracks and gadgets.  
( ) Not Specific ( ) Not Relevant  
( ) Not Measureable ( ) Not Traceable  
( ) Not Achievable  
( ) Multiple requirements  
( ) No problem
- 2) The Student Management application should be able to store all the grades.  
( ) Not Specific ( ) Not Relevant  
( ) Not Measureable ( ) Not Traceable  
( ) Not Achievable  
( ) Multiple requirements  
( ) No problem
- 3) The application may only be installed on the server by the database administrator.  
( ) Not Specific ( ) Not Relevant  
( ) Not Measureable ( ) Not Traceable  
( ) Not Achievable  
( ) Multiple requirements  
( ) No problem

**Part 4: Define the number of necessary test runs, to test all possible paths. (9 Points)**



How many test **runs** are necessary to test all the possible paths in the software? ( )

**Part 5: Connect Test Techniques with the Types. (10 Points)**

