Enrollment No......................................

Faculty of Engineering
End Sem (Even) Examination May-2018
CA5EL16 Software Testing

Programme: MCA   Branch/Specialisation: Computer Application

Duration: 3 Hrs.   Maximum Marks: 60

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

Q.1   i.   Which of the following term describes testing?   **1**
             (a) Finding broken code   (b) Evaluating deliverable to find errors
             (c) A stage of all projects   (d) None of the mentioned

   ii.   Selection of a model is based on   **1**
             (a) Requirements
             (b) Development team & Users
             (c) Project type and associated risk
             (d) All of the mentioned

  iii.   Which is/are the characteristics of equivalence partitioning?   **1**
             (a) In equivalence-partitioning technique we need to test only one condition from each partition.
             (b) If one condition in a partition works, we assume all of the conditions in that partition will work.
             (c) If one of the conditions in a partition does not work, then we assume that none of the conditions in that partition will work.
             (d) All of the above

  iv.   White Box techniques are also classified as   **1**
             (a) Design based testing   (b) Structural testing
             (c) Error guessing technique   (d) None of the mentioned

   v.   In which of the following situations regression testing is not performed?   **1**
             (a) When project manger asks to perform
             (b) When new functionality is introduced.
             (c) When database system is changed
             (d) When system is installed on different hardware configuration than previously tested.

vi.   What is the order in which test levels are performed?   **1**
(a) Unit, Integration, System, Acceptance
(b) Unit, System, Integration, Acceptance
(c) Unit, Integration, Acceptance, System
(d) It depends on nature of a project

vii.   A set of inputs, execution preconditions and expected outcomes is   **1**
known as a
(a) Test plan   (b) Test case   (c) Test document   (d) Test Suite

viii. Defects can be detected and added to your Quality Center project by   **1**
users during...... of the testing process
(a) The final stage
(b) All stages
(c) All stages but after first stage
(d) Both (b) and (c)

ix.   Specifying a set of test cases or test paths for each item to be tested at   **1**
that level is known as
(a) Test case generation   (b) Test case design
(c) All of the mentioned   (d) None of the mentioned

x.   Select the operating system which is NOT supported by Selenium   **1**
IDE.
(a) Unix   (b) Linux   (c) Windows   (d) Solaris

Q.2   i.   What is the reason that software have bugs?   **2**
     ii.   What is the difference between QA and Testing?   **3**
     iii.   Who does Software Testing?   **5**
OR   iv.   List down the difference between Verification and Validation.   **5**

Q.3   i.   What do you mean by functional and non functional testing?   **2**
     ii.   List and details the methods of Black box Testing?   **8**
OR   iii.   List and details the methods of White box Testing?   **8**

Q.4   i.   List the several types of system tests.   **3**
     ii.   Describe the activities/Tasks and responsibilities for developer/testers   **7**
in support of multilevel testing.
OR   iii.   What is Lifecycle? Define and discuss software testing Life cycle   **7**
(STLC)

Q.5   i.   Why create Test Scenarios and when not create Test Scenario?   **4**
     ii.   How to create a Test Scenario? Explain test scenario for Flight   **6**
reservation?
OR   iii.   Explain defect management and its advantages?   **6**

Q.6   Attempt any two:
     i.   How to write good test plan and what to include in test plan.   **5**
     ii.   How to do API Testing with QTP? Explain with the example of   **5**
Facebook.
     iii.   What is selenium? Write its Pros and Cons?   **5**

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Marking Scheme
CA5EL16 Software Testing

Q.1 i. Which of the following term describes testing? **1**
(b) Evaluating deliverable to find errors

ii. Selection of a model is based on **1**
(d) All of these

iii. Which is/are the characteristics of equivalence partitioning? **1**
(d) All of these

iv. White Box techniques are also classified as **1**
(b) Structural testing

v. In which of the following situations regression testing is not performed? **1**
(a) When project manger asks to perform

vi. What is the order in which test levels are performed? **1**
(d) It depends on nature of a project

vii. A set of inputs, execution preconditions and expected outcomes is known as a **1**
(b) Test case

viii. Defects can be detected and added to your Quality Center project by users during...... of the testing process **1**
(b) All stages

ix. Specifying a set of test cases or test paths for each item to be tested at that level is known as **1**
(c) All of these

x. Select the operating system which is NOT supported by Selenium IDE. **1**
(a) Unix

Q.2 i. Reason that software have bugs **2**
ii. Difference between QA and Testing **3**
1 mark for each point (1 mark * 3)
iii. Who does Software Testing **5**
2.5 marks each (2.5 marks * 2)
OR iv. Difference between Verification and Validation. **5**
1 mark for each point (1 mark * 5)

Q.3 i. Functional testing 1 mark **2**
Non functional testing 1 mark

ii. Methods of Black box Testing **8**
2 marks for each method (2 marks * 4)

OR iii. Methods of White box Testing **8**
2 marks for each method (2 marks * 4)

Q.4 i. Types of system tests. 1 mark each (1 mark * 3) **3**
ii. Describe the activities/Tasks and responsibilities for developer/testers in support of multilevel testing. [4 marks + 2 marks +1 marks] **7**

OR iii. Lifecycle 2 marks **7**
Define STLC 2 marks
Discuss software testing Life cycle (STLC) 3 marks

Q.5 i. Why create Test Scenarios 2 marks **4**
When not create Test Scenario 2 marks
ii. How to create a Test Scenario 2 marks **6**
Test scenario for Flight reservation 4 marks
OR iii. Defect management 2 marks **6**
Its advantages (1 mark each) (1 mark * 4) 4 marks

Q.6 Attempt any two:
i. To write good test plan 2.5 marks **5**
To include in test plan. 2.5 marks
ii. API Testing with QTP 2 marks **5**
Example of Facebook. 3 marks
iii. Selenium 2 marks **5**
Its Pros and Cons (1 mark each) (1 mark * 3) 3 marks

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