

**PARUL UNIVERSITY**  
**FACULTY OF IT & COMPUTER SCIENCE**  
**MCA Summer 2018 – 19 Examination**

**Semester: 05**  
**Subject Code: 05201339**  
**Subject Name: Software Testing and Quality Assurance**

**Date: 02/05/2019**  
**Time: 02:00pm To 04:30pm**  
**Total Marks: 60**

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**Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

**Q.1 Answer the followings.****A. Write short notes.****(05)**

1. What is testing?
2. Define Load testing?
3. List down 6 principles of Security Testing.
4. Why is Software testing important?
5. What is manual testing?

**B. Multiple choice type questions/ Give the sentence true or false. (Each of 01 marks)****(10)**

1. The version of the release on which Alpha testing is performed is called "Beta Release". (True / False)
2. Alpha testing is the system testing performed by a selected group of friendly customers. (True / False)
3. SQA ensures that appropriate process and technology are used to achieve software security. (True / False)
4. Unit Testing means using an automation tool to execute your test case suite. (True / False)
5. Scope of automation is the area of your Application Under Test which will be automated. (True / False)
6. Usability Testing Tool is:
  - a) Crazy Egg
  - b) Selenium
  - c) Quick Test Professional
  - d) Load Runner
7. For automating any application, which parameter(s) should be considered?
  - a) Platform independence
  - b) A) and B) both
  - c) E-mail Notifications
  - d) None
8. Confirming the identity of a person is called:
  - a) Authorization
  - b) Availability
  - c) Authentication
  - d) Confidentiality
9. OWASP is one of the \_\_\_\_\_ tools.
  - a) Performance Testing
  - b) Security Testing
  - c) Stress Testing
  - d) None
10. Penetration testing is a type of:
  - a) Performance Testing
  - b) Security Testing
  - c) Stress Testing
  - d) None

**Q.2 Answer the followings. (2 or 3 Mark Questions.) (Three Q- 2 marks & Two Q-3 marks.)****(15)**

1. When to stop Testing?
2. List down the Elements of Software Quality Assurance.
3. Show Software Testing Life Cycle with a diagram.
4. Differentiate Software Validation and Software Verification.
5. Analyze Importance of Software Quality.
6. List and define levels of testing.

**Q.3 Answer the following. (Any three)****(15)**

1. Differentiate Alpha testing and Beta testing.
2. Elaborate Blackbox Testing with Diagram.
3. List and explain Whitebox Testing Techniques.
4. List and define the types of Installation testing.

**Q.4 Answer the following.**

- A. List and define Testing objectives. **(05)**  
B. Explain Six Sigma for Software Engineering. **(10)**

OR

- B. Elaborate McCall's Quality Factors with diagram. **(10)**