

Roll No .....

**MCTA/MCIT - 302(A)****M.E./M.Tech. III Semester**

Examination, December 2014

**Software Testing and Quality Assurance (Elective)***Time : Three Hours***RGPVONLINE.COM***Maximum Marks : 70**Note : Attempt any five questions. All questions carry equal marks.*

1. a) When should testing began? Also explain the criteria for completion of testing?  
b) What do you mean by the micro and macro processes of object oriented technologies?
2. a) Discuss software testing strategies. Differentiate between verification and validation?  
b) What are the several ways of testing software? Explain a test plan and a test report?
3. a) How is object oriented testing different than procedural testing? Explain it?  
b) Differentiate between implementation and test model of object oriented system. Take suitable examples?
4. a) What are test comparators? How is the activity of debugging different from testing?  
b) In n tier architecture what are the factors should be considered for testing? What types of Web testing Security problem?

5. a) How do you start testing an web application? How software reliability is different from hardware reliability?  
b) Why is it often hard for management to get serious about quality assurance? How you will evaluate the tool for test automation?
6. a) The program reads a, b, c as the three sides of a triangle and determines whether they form an isosceles, equilateral, scalene triangle. Draw its flow graph and calculate its cyclomatic complexity?  
b) What is HCL testing? Explain HCL requirements and design process?

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7. a) Suppose your e-commerce site currently handles 300,000 transactions per day. So, how many transaction are being done per second? How can performance testing be done?  
b) How exactly the testing the application compatibility on different browsers and on different operating system is done?
8. a) Can we perform the test of single application at the same time using different tools on the same machine? Explain it? How testing is proceeded when SRS or any other document is not given?  
b) What is the difference between Load and stress testing? How does a client server environment affect testing?

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