

PARUL UNIVERSITY
FACULTY OF IT & COMPUTER SCIENCE
MCA, Winter 2018-19 Examination

Semester: 5
Subject Code: 05201339
Subject Name: Software Testing and Quality Assurance

Date: 01/11/2018
Time: 10:30 am to 1:00 pm
Total Marks: 60

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 following.**A. Write short notes. (Each of 01 mark)****(05)**

1. When to stop testing?
2. List Popular Automation Tools.
3. What is Validation?
4. Write one difference between Load testing and Stress testing.
5. Define Software Testing.

B. Multiple choice type questions. (Each of 01 mark)**(10)**

1. The type of software testing in which each module is tested along in an attempt to discover any errors in its code, is known as _____
a) Integration testing b) Acceptance testing c) Mutation testing d) Unit testing
2. White-box testing can be started at? Before programming or after programming?
3. Alpha testing will be done at, _____. a) User's side b) Developers' side
4. Which testing is concerned with behavior of whole product as per specified requirements?
a) Acceptance testing b) Component testing c) System testing d) Integration testing
5. _____ standards apply to the software product being developed. Process or Product?
6. What are the types of Integration testing?
a) Big bang testing b) Bottom up testing c) Top down testing d) All of the above
7. When should regression testing to be performed?
a) When the project manager says b) After the software has changed.
c) Whenever software testing team get the time. d) None of the above.
8. The approach/document used to make sure all the requirements are covered when writing test cases is known as _____.
a) Test Matrix b) Checklist c) Test bed d) Traceability Matrix
9. _____ testing is by going through the code. Black box or White box?
10. If the same tests are repeated over and over again, eventually the same set of test cases will no longer find any new bugs known as _____.
a) Paradox testing b) Pesticides paradox c) Pesticide testing d) None of the above

Q.2 Answer the following.

1. Why testing is needed? **(02)**
2. Differentiate Alpha and Beta Testing. **(02)**
3. Explain ANY ONE elements of SQA. **(02)**
4. Explain Big bang approach. **(03)**
5. What is Test case? Give example. **(03)**
6. Explain ANY ONE black box testing type. **(03)**

Q.3 Answer the following. (Any three) (Each of 05 marks)**(15)**

1. How to achieve Software Quality? Explain in brief.
2. Explain ANY ONE System Testing technique.
3. Explain ANY ONE Level of Testing.
4. Explain Testing objectives in brief.

Q.4 Answer the following.

- A. Explain Six Sigma Software engineering. **(05)**
- B. Explain STLC in brief. **(10)**

OR

- B. Explain ANY ONE White Box testing. **(10)**