

**TILAK MAHARASHTRA VIDYAPEETH, PUNE**  
**BACHELOR OF COMPUTER APPLICATIONS (B.C.A.)**  
**EXAMINATION : DECEMBER - 2022**  
**SEMESTER - V**  
**Sub: Software Quality Testing (SQT) (BCA – 543)**

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**Date : 16/12/2022**

**Total Marks : 60**

**Time: 10.00 am to 12.30 pm**

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**Instructions:**

1. All questions are compulsory unless and otherwise stated.
  2. Bold figures to the right of every question are the maximum marks for that question.
  3. Candidates are advised to attempt questions in order.
  4. Answers written illegibly are likely to be marked zero.
  5. Use of scientific calculators, Log tables, Mollier Charts is allowed.
  6. Draw neat and labeled diagrams wherever necessary.
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**Q.1. Fill in the blanks.**

**(5)**

1. Acceptance Testing is also known as \_\_\_\_\_.
  - a) Alpha Testing
  - b) Beta Testing
  - c) Grey box Testing
  - d) White box Testing
2. \_\_\_\_\_ of the following is not white box testing.
  - a) Path testing
  - b) Data flow testing
  - c) Statement testing
  - d) State transition testing
3. Software mistakes during coding are known as \_\_\_\_\_.
  - a) Bugs
  - b) Errors
  - c) Failures
  - d) Defects
4. Functional Testing is also known as \_\_\_\_\_.
  - a) Component testing
  - b) Sanity testing
  - c) Acceptance testing
  - d) None of above
5. User acceptance is done at \_\_\_\_\_ stage.
  - a) Manual Stage
  - b) Automatic Stage
  - c) Both Manual & Automatic
  - d) None of the above

**Q.2. State True/False.**

**(5)**

1. Usability testing is the form of functional testing.
2. Static testing is performed first.
3. Cyclomatic complexity is also known as black box testing.
4. Smoke testing is also known as confidence testing.
5. Black box testing is only functional testing.

**Q.3. Answer the following. (Solve any 5)**

**(10)**

1. What is difference between Alpha testing and Beta testing?
2. Define QA and QC.
3. What is a defect?
4. Define Load testing.
5. What is security testing?
6. Define LOC and KLOC.

**Q. 4. Answer the following in detail. (Solve any 6) (30)**

1. Explain spiral model with diagram.
2. Describe testing life cycle.
3. Explain the term Peer Review.
4. How to test requirement specification?
5. What is verification and validation? Explain it with diagram.
6. Write a note on Six Sigma.
7. Explain tester's workbench concept with diagram.

**Q. 5. Answer the following in detail. (Solve any 1) (10)**

1. Describe any 10 quality factors under software quality assurance.
  2. Explain bath tub curve for software and hardware reliability.
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