

TILAK MAHARASHTRA VIDYAPEETH, PUNE
BACHELOR OF COMPUTER APPLICATIONS (B.C.A.)/
SPECIALIZATION IN CYBER SECURITY (CS)
EXAMINATION : JUNE - 2025
SEMESTER - III

Sub: Software Testing & Quality Assurance/ Software Quality Testing
(BCA –345-18/345-20/BCA-CS-345-20)

Date : 16/06/2025

Total Marks : 60

Time: 2.00 pm To 4.30 pm

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.

Q.1. Fill in the blanks.

(5)

1. User acceptance is done at _____ stage.
 - a) Manual Stage
 - b) Automatic Stage
 - c) Both Manual & Automatic
 - d) None of the above
2. _____ testing is related to Non-functional testing?
 - a) Unit Testing
 - b) Black-box Testing
 - c) Performance Testing
 - d) None of the above
3. RAD Model has _____.
 - a) 2 phases
 - b) 3 phases
 - c) 5 phases
 - d) 6 phases
4. Boundary value analysis belongs to _____.
 - a) White Box Testing
 - b) Black Box Testing
 - c) White Box & Black Box Testing
 - d) None of the mentioned
5. Acceptance Testing is also known as _____.
 - a) Alpha Testing
 - b) Beta Testing
 - c) Grey box Testing
 - d) White box Testing

Q.2. State True/False.

(5)

1. Black box testing is only functional testing.
2. Automation Testing should be done before starting manual testing.
3. The alpha test is conducted at user's site.
4. Quality control is pillar for Software Quality Assurance.
5. Software costs more to maintain than it does to develop.

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

(10)

1. Define QA and QC.
2. Define LOC and KLOC.
3. Define test case.
4. List need for SQA.
5. What is Buddy Check?
6. What is Unit Testing?

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

(30)

1. Explain load testing and stress testing in detail.
2. Explain Six Sigma.
3. Difference between black box white box testing.
4. Describe spiral model with suitable diagram.
5. Explain software quality metrics.
6. Describe capability maturity model.
7. Explain all performance testing categories.

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

(10)

1. Describe any 10 quality factors under software quality assurance.
 2. Describe V-V model using suitable diagram.
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