



K22P 2010

Reg. No. :

Name :

**IV Semester M.C.A. Degree (CBSS – Regular) Examination, May 2022
(2020 Admission)**

**STREAM 6 – SOFTWARE ENGINEERING
MCA4E04 : Software Testing and Quality Assurance**

Time : 3 Hours

Max. Marks : 60

SECTION – A

Answer **all** questions. **Each** question carries **two** marks.

1. What is software testing? Explain its relevance in SDLC.
2. Explain in brief the software testing process.
3. Differentiate black box with white box testing.
4. What is defect? Give examples.
5. What do you mean by object-oriented testing?
6. Give a note on the relevance of rapid application development testing.
7. Discuss the skills required for automating software testing.
8. Discuss the challenges in testing web-based systems.
9. Briefly explain the need for test metrics.
10. List any four software testing tools.

SECTION – B

Answer **all** questions. **Each** question carries **eight** marks.

11. A) Give an elaborated note on the goal of software testing and also on software testing principles.

OR

- B) Give a detailed note on the software testing process.

P.T.O.



12. A) Explain the various white-box techniques with suitable test cases.

OR

B) Explain the different integration testing strategies for procedures and functions with appropriate diagrams.

13. A) Explain in detail about testing in the warehouse.

OR

B) Explain testing in the client/server systems with its applications in detail.

14. A) Explain any one bug tracking tool elaborately.

OR

B) Give notes on software testing tools and automation.

15. A) Give a note on the metrics for measuring the quality of software testing.

OR

B) Explain how one can measure the manufacturer's view of software quality.

