K25P 2155

Reg. No. : ....

Name : ....

Fourth Semester M.C.A. Degree (C.B.S.S. – Reg./Supple./Imp.) Examination, May 2025
(2021 Admission Onwards)
STREAM 6 : SOFTWARE ENGINEERING
MCA 4E04 : Software Testing and Quality Assurance

Time : 3 Hours

Max. Marks : 60

SECTION – A

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

1. What is Code Functional Testing ?

2. Define Taguchi Quality Loss Function.

3. Give the relevance of using Six Sigma Methodology.

4. What is Configuration Testing ?

5. What is Defect Bash Elimination ?

6. Write a short note on a bug tracking tool.

7. List four skills necessary for Automation.

8. What is TQM ?

9. Define FMEA.

10. How are Web based systems tested ?

(10×2=20)

SECTION – B

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

11. a) Explain the Six Sigma methodology techniques.

    OR

    b) Explain the techniques for effective defect removal.

P.T.O.

12. a) Explain about Rapid Application Development Testing.

    OR

    b) Discuss about Object Oriented Testing.

13. a) Explain the design and architecture for Automation.

    OR

    b) Discuss the challenges faced in Automation.

14. a) Differentiate between configuration and compatibility testing.

    OR

    b) Explain White box Techniques.

15. a) Explain software testing process.

    OR

    b) Discuss on analyzing and reporting test results.   (5×8=40)

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