

**BACHELOR OF TECHNOLOGY (CBCS) (2020 COURSE)**

**Computer Science & Engineering**

**B.Tech.Sem - V :SUMMER : 2023**

**SUBJECT : SOFTWARE TESTING & QUALITY ASSURANCE**

Day : Tuesday

Time : 10:00 AM-01:00 PM

Date : 09-05-2023

**S-24315-2023**

Max. Marks : 60

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**N.B.**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw neat and labelled diagrams **WHEREVER** necessary.
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**Q.1** Discuss the benefits of verification and validation in a student registration system. (10)

**OR**

**Q.1** Design test cases that satisfy the decision coverage criteria by considering suitable example. (10)

**Q.2** List and explain system integration testing techniques. (10)

**OR**

**Q.2** Explain entry and exit criteria for alpha and beta testing. How Alpha testing is differ from Beta testing? (10)

**Q.3** What is scalability testing? Explain test plan for system testing. (10)

**OR**

**Q.3** Define load and stress testing and explain both with respect to online shopping web portal. (10)

**Q.4** Describe test generation methodology from FSM model. (10)

**OR**

**Q.4** Explain metrics for monitoring test execution. (10)

**Q.5** Discuss about ISO – 9000 standards with suitable example. (10)

**OR**

**Q.5** List types of quality costs. Explain each in detail. (10)

**Q.6** Define software automation and Explain design & scope of automation. (10)

**OR**

**Q.6** Write in brief about any three reliability metrics. (10)