

1059

M.E. Information Technology
Second Semester

MEIT-217: Software Testing and Quality Assurance

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Unit.

x-x-x

I. Define the following terms:-

- a) What is TQM?
- b) Define Formal Technical Reviews?
- c) Differentiate between Ratio, Proportion and Percentage?
- d) What is CASE?
- e) Differentiate between Verification and Validation? (5x2)

UNIT – I

- II. a) What are TQM principles? Elaborate?
- b) How software process metrics differs from software project metrics? Give two metrics for each? (2x5)
- III. a) What is reverse engineering? How it helps in improving the software quality?
- b) Describe different phases of ERP implementation? Explain with a suitable example? (2x5)
- IV. a) Describe the process of Cleanroom Methodology?
- b) What are the different ways for measuring customer satisfaction? Explain? (2x5)

UNIT – II

- V. a) Explain the process of Requirement Elicitation and analysis?
- b) List the Ishikawa's seven basic tools for quality control? Explain any two? (2x5)
- VI. a) What is configuration management? Explain the configuration management plan for WAR project?
- b) Differentiate between Unit testing and integration testing? (2x5)
- VII. Write a note on Risk Management? (10)

x-x-x