Exam.Code:1006 Sub. Code: 7700

2072

M.E. (Information Technology) Second Semester

MEIT-2104: Software Quality Assurance

Time allowed: 3 Hours Max. Marks: 50

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

x-x-x

- 1. Attempt the following:
 - a). What is TQM? What are its principles?
 - b). Define six sigma? What are its methodologies?
 - c). What is Risk Monitoring?
 - d). How can we measure customer satisfaction?
 - e). What are CASE tools? What are the different categories of CASE tools? (5x2=10)

PART-A

- 2. a). What are Reviews? How are they important in SQA?
 - b). List various metrics for measuring software Maintenance? Explain (5,5)
- a). Describe the Cleanroom methodology for software development?
 - b). What is defect prevention? Explain the process of defect prevention? (5,5)
- 4. a). Describe the process of reverse engineering? Why is it required?
 - b). What is software Reliability? Differentiate between static reliability and (5,5)

PART-B

- a). What is the significance of Control charts in data analysis? Explain Pareto diagrams and Cause and Effect Diagrams?
 - b). What do you understand from the term Requirement Management? Explain the process of requirement management? (5,5)
- Describe in detail: Unit testing, Integration Testing, Function Testing, 6. System Testing and Regression Testing? (5,5)
- a). Describe the difference between "known risks" and "predictable risks."? Describe the difference between risk components and risk drivers.
 - b). Write short note on RMMM plan? (5,5)