

31612 (M)

Exam.Code:09268148m
Sub. Code: 6773

2062

B.E. (Information Technology) Eighth Semester
IT-804(d): 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 Part.

x-x-x

1. Define the following:-

- a). What is Software Quality? List different attributes of Software Quality.
- b). List the principles of TQM?
- c). Define Risk mitigation?
- d). What is the role of Configuration Audit in SCM?
- e). What is Regression testing?

(5X2)

Part A

2. a). What are the different techniques of SQA? Explain briefly the difference between Reviews and Audits?
b). Briefly explain the significance of Six Sigma in software quality? Describe the process of Six Sigma. (5,5)
3. a). Describe the difference between "known risks" and "predictable risks."
b). Explain the RMMM Plan? Can you think of a situation in which a high-probability, high-impact risk would not be considered as part of your RMMM plan? (5,5)
4. a). Write a short note on Six Sigma?
b). Differentiate between static reliability and dynamic reliability? (5,5)

Part B

5. Describe in detail: Unit testing, Integration Testing, Function Testing, System Testing and Regression Testing? (5,5)
6. . What is the purpose of Data Flow diagrams? What are the notations used for the same. Explain by constructing a context flow diagram level 0 DFD and level 1 DFD for library management system? (10)
7. a). Discuss the techniques for testing web based systems?
b). Write short note on Design phase testing? (5,5)

x-x-x