

18IS62

(10 Marks)

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Sixth Semester B.E. Degree Examination, Dec.2023/Jan.2024 Software Testing

Time: 3 hrs. Max. Marks: 100 Note: Answer any FIVE full questions, choosing ONE full question from each module. Module-1 Define the following: i) Error Fault iv) Incident v) Test care. 1 Failure (05 Marks) List and explain important error and fault taxonomic. (05 Marks) Explain Testing and Debugging Life Cycle, with a neat diagram. (10 Marks) Write a pseudo code for structured programming version of triangle programme. (10 Marks) 2 Explain different types of Software test metrics in detail. b. (10 Marks) Module-2 Explain Boundary value analysis, with any one suitable example. 3 (10 Marks) Explain the following Equivalence testing types: Weak Normal Strong Normal ii) Weak Robust iv) Strong Robust. iii) (10 Marks) OR Explain the Decision Table – Based Testing with any one suitable example. (10 Marks) Explain Fault Based Adequacy Criteria. (05 Marks) c. Explain Mutation Analysis Terminologies. (05 Marks) Module-3 Write a triangle program. Draw the program graph and find the DD paths, DD path graph. 5 (10 Marks) Explain Mc Cabe's basis path testing method with an example. (10 Marks) OR Define Scaffolding. Explain Generic versus Specific Scaffolding. (10 Marks) b. Define Test Oracle. Explain with a neat diagram the concept of test harness. (10 Marks) Module-4 Explain the following principles : Sensitivity i) Redundancy Visibility Partition iv) V) (10 Marks) b. List and explain dependability properties with examples. (10 Marks) OR Explain the following 8 Risk Planning ii) Monitoring the process.

ii)

Test design specification document.

Write a short note on:

Organizing documents

Module-5

9 a. What is System Acceptance and Regressing Testing? Explain briefly.
b. Write context diagram and Level 1 dataflow diagram of SATM system.
(10 Marks)
(10 Marks)

OR

a. What is Call – Graph based integration testing? Explain the strategies under call based integration testing.
b. Explain the path based integration testing.
(10 Marks)
(10 Marks)

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