## **R13**

Set No. 1

## IV B.Tech I Semester Regular/Supplementary Examinations, Jan/Feb – 2022 SOFTWARE TESTING METHODOLOGIES

(Computer Science and Engineering)

Time: 3 hours Max. Marks: 70 Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THREE questions from Part-B PART-A (22 Marks) Write various definitions of software testing. [4] 1. a) b) What are activities of verification and validation? [4] Explain about mutation testing. [4] What are objectives of regression testing? Explain. [4] Explain about quality control and quality assurance. e) [3] f) What are challenges in testing for Web-based Software? [3] PART-B (3x16 = 48 Marks)With a neat diagram, explain about software testing model. 2. a) [8] Discuss about software testing life cycle. [8] b) Explain about verification of high-level design. 3. a) [8] Discuss in detail about state table-based testing. b) [8] 4. a) Define white-box testing. Explain dataflow testing with example. [8] What is static testing? Explain about inspections in static testing. [8] 5. Explain in detail about system testing. [8] a) When is regression testing done? Explain about regression testing types. b) [8] 6. a) Discuss in detail about quality management and quality factors. [8] What are SQA models? Explain. b) [8] Give an overview of some commercial testing tools. [8] 7. a) b) Write basics of OOT and explain. [8]

1 of 1