

Code No: RT32121

**R13****SET - 1****III B. Tech II Semester Regular/Supplementary Examinations, April -2018****SOFTWARE TESTING**

(Information Technology)

Time: 3 hours

Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)2. Answering the question in **Part-A** is compulsory3. Answer any **THREE** Questions from **Part-B**

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**PART -A**

- 1 a) Write about effective software testing? [3M]
- b) What are the various Testing Principles? [4M]
- c) Write about Flow graph notations of different programming constructs? [4M]
- d) What are Guidelines for performing the system tests? [4M]
- e) Discuss about Types of Test case Prioritization? [4M]
- f) What is the Role of Invariants in Class Testing? [3M]

**PART -B**

- 2 a) Write about the Psychology for Software Testing? [4M]
- b) Define STM? What is the need of testing and when to stop testing? [8M]
- c) Draw the Life Cycle of a Bug [4M]
- 3 a) Discuss about Verification of User Interface Design [3M]
- b) Explain in brief about Black Box Testing Techniques [8M]
- c) How to verify Low level Design? [5M]
- 4 a) What is the Use of connection matrix in finding cyclomatic complexity? Illustrate with an example [8M]
- b) Why do we need White box testing? Justify [8M]
- 5 a) Define System Test. What are the Categories of Systems Tests? [8M]
- b) What are the Benefits of Regression Testing? [8M]
- 6 a) Explain in brief about the Test Process Improvement (TPI) Model [8M]
- b) Write about Procedural and quantitative approach to quality management [8M]
- 7 a) Describe in brief about Thread based Integration Testing and UML based OO testing [8M]
- b) Explain in brief about Categorization of Testing Tools [8M]

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