Code No: R1632054 **R16** SET - 1

III B. Tech II Semester Regular/Supplementary Examinations, October/November - 2020

SOFTWARE TESTING METHODOLOGIES

(Common to Computer Science and Engineering, Information Technology)

Time: 3 hours Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B)**
2. Answer **ALL** the question in **Part-A**
3. Answer any **FOUR** Questions from **Part-B**

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PART –A (14 Marks)

1. a) What is the focus of acceptance testing? [2M]
   b) Represent absorption and conjugation in transaction flow testing. [2M]
   c) List out the restrictions to domain testing. [2M]
   d) How to represent a graph with a matrix? [3M]
   e) Define syntax-based testing. [3M]
   f) What is the popular integration approach? Give the reason. [2M]

PART –B (56 Marks)

2. a) Define Bug. Discuss the consequences of bugs. [7M]
   b) Explain path selection and path testing criteria. How they affect testing? [7M]

3. a) Describe the components of the data flow model. [7M]
   b) Discuss the complexity of transaction flow representation. [7M]

4. a) Compare and contrast nice and ugly domains. [7M]
   b) Explain SPAN compatibility with an example. [7M]

5. a) Explain KV charts for the function of two variables. How it will be used in logic reduction. [7M]
   b) How to perform syntax testing using the black-box method? Explain. [7M]

6. a) Explain the partition algorithm for software testing. [7M]
   b) How to identify equivalent states and how to merge them in representing state graphs? Explain. [7M]

7. a) Compare the features of various dynamic software testing tools. [7M]
   b) How to formulate and execute test scripts in load runner? Explain. [7M]

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