R16

Code No: **R1632054**

SET - 1

[7M]

III B. Tech II Semester Regular/Supplementary Examinations, August-2021 SOFTWARE TESTING METHODOLOGIES

(Common to Computer Science and Engineering, Information Technology)

Time: 3 hours Max. Marks: 70

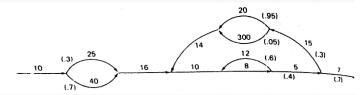
Note: 1. Question Paper consists of two parts (Part-A and Part-B)

- 2. Answer **ALL** the question in **Part-A**
- 3. Answer any **FOUR** Questions from **Part-B**

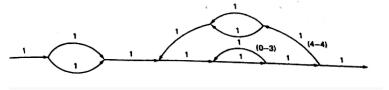
PART -A (14 Marks) 1. a) What is Compound Predicate? Give an example. [2M]b) What are the four different states of an object present in data-flow [2M]anomaly model? c) Illustrate the distributive law applied for path products and Path [2M]sums. d) Differentiate context dependent syntax errors and state dependency [3M] errors. e) Define the following: [3M] iii) Equivalent states. i) Unreachable state; ii) Dead state; What are the tools required for test planning. [2M]PART -B (56 Marks) 2. a) Draw and explain the Model for testing. [7M] b) Analyze the process of testing Multi-Entry/Multi-Exit Routines. [7M] 3. a) Discuss about structural test strategies for control flow graphs. [7M]

b) What are the rules to be considered for constructing a data-flow [7M] model for a control flow graph? Explain.

4. a) Find the mean processing time for the given flow graph. [7M]

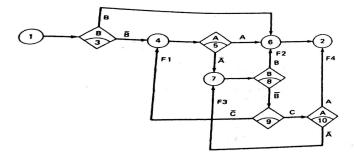


b) Find the maximum path count for the given flow graph.



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- 5. a) Discuss about hidden language recognition while exploiting syntax [7M] testing.
 - b) Find out the Boolean equations for the given Flow graph with loops. [7M]



6. a) Discuss about transition bugs in detail.

- [7M]
- b) Illustrate the role of matrix representation of graph for testing [7M] purpose.
- 7. a) What is the difference between load testing and stress testing? [5M] Explain.
 - b) Explain about different windows that are available in Win runner [9M] and its usage in testing applications.

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