

R20

Code No: 873AJ

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

MCA III Semester Examinations, September/October - 2022

SOFTWARE TESTING METHODOLOGIES

Time: 3 Hours

Max.Marks:75

**Answer any five questions
All questions carry equal marks**

- 1.a) Define testing. Explain the purpose of testing.
b) Explain different kinds of bugs, what are the reasons to occur those kinds of bugs and what are the test remedies for them? [7+8]
- 2.a) Explain path sensitization and path instrumentation techniques?
b) What are the different notations used in the control flow graph? Explain. [7+8]
- 3.a) What are the different strategies used in the data flow testing? Explain.
b) What are the advantages of domain testing? Explain. [8+7]
- 4.a) What is Data flow model? Explain with an example.
b) Differentiate domain testing and interfaces testing with an example. [7+8]
- 5.a) What is meant by Path Products and Path sum? Explain with example.
b) How absorption rule works with Paths? Explain with an example. [7+8]
- 6.a) Explain decision tables and structure with an example?
b) Minimize the following function using KV map:
$$F(A, B, C, D) = \Sigma(3, 4, 5, 6, 8, 9, 10, 11, 14) + d(7, 5)$$
 [8+7]
7. Write a short note on following:
a) Principles of state testing
b) Starting point of state testing
c) Recognizing Equivalent states. [5+5+5]
- 8.a) Explain Power of a matrix and product.
b) Explain the applications of win-runner. [7+8]

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