

Code No: 57047

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**B. Tech IV Year I Semester Examinations, March - 2017****SOFTWARE TESTING METHODOLOGIES****(Common to CSE, IT)****Time: 3 Hours****Max. Marks: 75****Answer any Five Questions
All Questions Carry Equal Marks**

- 1.a) Distinguish the following:
i) Testing and debugging ii) Function and structure
b) What are structural bugs? Explain. [8+7]
- 2.a) Define path instrumentation. Explain in detail.
b) Discuss about implementation and application of Path Testing. [8+7]
- 3.a) Describe the notions of data flow anomalies and data flow anomaly state graph.
b) Discuss about transaction based systems and hidden languages. [8+7]
- 4.a) Define domain testing. Explain domains and paths.
b) Explain in detail about linearizing transformations. [8+7]
- 5.a) Discuss about approximate number of paths in a flow graph.
b) Explain parallel term procedure in reduction procedure with an example. [8+7]
- 6.a) Write brief notes on Boolean equations with example.
b) What is a KV-chart? Write its merits. Describe 3-variable KV chart. [8+7]
- 7.a) What is transition testing? Explain transition bugs.
b) What are limitations and extensions of state testing? Explain. [8+7]
8. Explain the following:
a) Equivalence Relations
b) Matrix of graph
c) Jmeter testing tool. [5+5+5]

---ooOoo---