

Course : B.Tech. Branch : CSE - AB Year: III Semester : II Academic Year: 2018-2019

Subject: Software Testing Methodologies Admitted Batch: 2016

QUESTION BANK

Unit I : Introduction, Flow graphs and Path testing

1. a) What is meant by Software testing? Explain purpose of testing. [5 Marks]
b) Explain dichotomies of testing. [5 Marks]
2. a) Describe model for testing. [5 Marks]
b) what are the different consequences of bugs and explain . [5 Marks]
3. a) Explain the taxonomy of bugs. [5 Marks]
b) Explain about the basics path testing. [5 Marks]
4. a) Explain about predicates. [4 Marks]
b) Explain the path predicates with suitable example. [6 Marks]
5. a) Explain about path sensitizing. [6 Marks]
b) Explain the path instrumentation. [4 Marks]

Unit II Transaction Flow Testing, Dataflow testing

1. a) Describe the transaction flow graph with neat diagram. [6 Marks]
b) list the transaction flow graphs uses. [4 Marks]
2. explain about the transaction flow graph techniques. [10 Marks]
3. a) Define data flow testing and data flow machines. [5 Marks]
b) Explain about data flow anomalies. [5 Marks]
4. a) explain the different strategies in data flow testing [10 Marks]
5. a) Explain about data flow model. [5 Marks]
b) describe the applications of data flow testing [5 Marks]

Unit III : Domain Testing, Paths, Path products and Regular expressions

1. a) What is domain testing? and with an example. [4 Marks]
b) Explain the different types of domains. [6 Marks]
2. Define path products and path expressions [10Marks]
3. a) Explain about reduction procedure . [5 Marks]
b) Explain about linearizing transformation. [5 Marks]
4. Explain about regular expression and flow anomaly detection [5 Marks]

Unit IV : Syntax Testing, Logic Based Testing

1. a) Explain about BNF notation. [5 Marks]
b) Describe about the test case generation. [5 Marks]
2. a) what are the testability tips? [5 Marks]
b) Explain about execution automation. [5 Marks]
3. a) Describe about knowledge based systems . [6 Marks]
b) Explain about design automation [5 Marks]
4. a) Explain about Decision tables. [5 Marks]
b) Describe about kv charts with example. [5 Marks]

Unit V : State, State Graphs and Transition Testing, Graph Matrices and Application

1. a) Explain in detail about the state graphs. [10 Marks]
2. Explain about state testing with suitable example. [10 marks]
3. Differentiate between the good and bad state graphs.. [10 Marks]
4. Describe about matrix of graph along with basic principles. [10 Marks]
5. a) Explain about node reduction algorithms. [5 Marks]
b) Describe about relations in detail. [5Marks]

Unit VI : Software Testing Tools

1. a) What is automation testing? And explain its concepts. [7 Marks]
b) list the different types of testing tool [5Marks]
2. a) Explain about win runner. [6Marks]
~~b) Explain about load runner [4 Marks]~~
3. Explain about test scripting language. [10 Marks]

4. Explain about running and debugging tests. [10Marks]
5. Explain about how to work with win runner tool. [10Marks]

Signature Of The Faculty

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