U.S.N

P.E.S. College of Engineering, Mandya - 571 401

(An Autonomous Institution affiliated to VTU, Belgaum)

Third Semester, M. Tech. - Computer Engineering (MCEN)
Semester End Examination; Dec - 2016/Jan - 2017
Software Testing

Time: 3 hrs   Max. Marks: 100

Note: Answer **FIVE** full questions, selecting **ONE** full question from each unit.

UNIT - I

1 a.	Differentiate between Specification-based testing and Code-based testing.	10
b.	Write and explain the structured implementations of triangle problem.	10
2 a.	Identify the Fault Taxonomies. Give the instances for each.	10
b.	Write an improved version of algorithm to accept date as input and print the date of next day.	10

UNIT - II

3 a.	Write the Refined Decision Table for triangle problem. Give the decision table with mutually exclusive condition.	10
b.	Draw the DD-path graph of commission problem and also write the pseudo code.	10
4 a.	Write the second Try decision table with 36 rules for the Next Date Function.	10
b.	Explain the Top-Down integration and Bottom-up integration with suitable example.	10

UNIT - III

5 a.	Explain the fundamental concepts of requirements specifications of SATM system.	10
b.	Explain the Text cases for lever component of Windshield wiper class considering all precondition and events. Give the Pseudo code.	10
6 a.	Explain with an example how flattened classes overcome the implications of Inheritance.	10
b.	Explain the client server testing.	10

UNIT - IV

7 a.	Explain the High Level use cases for currency converter.	10
b.	Explain event and message Driver Petri nets.	10
8 a.	Explain the expanded essential use case with an example.	10
b.	Explain UML-Based system Testing.	10

UNIT - V

9 a.	Explain Exploratory testing with an example.	10
b.	Explain the model-driven development and test-driven development approach for is leap year function with pseudo code.	10
10 a.	Explain the granularity of user stories for set of Tasks.	10
b.	Explain Peterson's Lattice of models of computation.	10

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