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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