Code No: 45090

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Set No - 2

[16]

[16]

III B.Tech I Semester Regular Examinations,Nov/Dec 2009 Software Testing Methodologies Common to Information Technology, Computer Science And Engineering Time: 3 hours Max Marks: 80 Answer any FIVE Questions All Questions carry equal marks

- (a) How domain testing can be used in both functional and structural testings?
 (b) Explain the different domain errors. [8+8]
- 2. Define Path sensitization and write Heuristic the procedure used in path sensitization. [16]
- 3. Explain the following in the context of node reduction procedure:
 - (a) Cross term step
 - (b) Parallel term step
 - (c) Loop term step.

4. Write short notes on:

- (a) Transition bugs
- (b) Dead states
- (c) State bugs
- (d) Encoding bugs.
- 5. (a) What are the different data object states in data-flow graphs.
 - (b) List nine possible two-letter combinations of the object states of data flow anomalies. Classify them as buggy, supplicious and ok. [8+8]
- 6. (a) Define a connection Matrix.
 - (b) Discuss the algorithm for finding set of all paths. [4+12]
- 7. (a) Whether the predicates are restricted to Binary Truth value or not? Explain?
 - (b) Illustrate the applications of Decision Tables? [8+8]
- 8. (a) What are Test and test design bugs, explain.
 - (b) The importance of a bug type is calculated by multiplying the expected cost of the nightmare by the probability of the bug and summing across all the nightmares. How? [8+8]
