Code: IT7T2

IV B.Tech - I Semester – Regular/Supplementary Examinations October - 2019

SOFTWARE TESTING
(INFORMATION TECHNOLOGY)

Duration: 3 hours   Max. Marks: 70

PART – A

Answer *all* the questions.   All questions carry equal marks

11 x 2 = 22 M

1.

a) What do you mean by Coding bugs?

b) What is Component Testing?

c) What do you mean by Predicate Interpretation?

d) Define Path Sensitizing.

e) What are Concatenated loops?

f) Define Ugly Domain.

g) What are Complete Boundaries?

h) Define State Table.

i) What are impossible states?

j) What is Transitive closure of a Matrix?

k) How can a graph be represented in Matrix form?

PART – B

Answer any ***THREE*** questions. All questions carry equal marks.

$$3 \times 16 = 48 \text{ M}$$

2. a) Explain different kinds of Testing.   8 M

   b) Discuss various Structural bugs.   8 M

3. a) Explain various Transaction flow Testing Techniques.

                                                            10 M

   b) Explain various Data flow Anomalies.   6 M

4. a) Apply Reduction procedure Algorithm to derive an
      expression with a neat example.   10 M

   b) Write about One Dimensional Testing Domain.   6 M

5. a) Construct Decision table for the given example.
      Rule1: "If the persons are male and over 30, then they
              shall receive a 15% raise.
       Rule 2: "If the persons are female, then they shall receive
              a 10% raise."   10 M

   b) Explain the rules of Boolean algebra.   6 M

6. a) What are the applications of Graph Matrices?　　　8 M

b) Write about equivalence and partial ordering relation.
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