

Code: IT7T2

**IV B.Tech - I Semester – Regular/Supplementary Examinations
March - 2021**

**SOFTWARE TESTING
(INFORMATION TECHNOLOGY)**

Duration: 3 hours

Max. Marks: 70

PART – A

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

11x 2 = 22 M

1.

- a) Explain control bug dominance.
- b) Which is costly i) storage disc used to store the software
ii) development of software.
- c) A _____ associated with a _____ is called a path predicate.
- d) Write a sample code showing how a variable can be used for computation.
- e) Give an example of path product.
- f) What do you mean by Immaterial cases?
- g) Define unachievable paths.
- h) Explain indegree and outdegree.
- i) What do you mean by rehosting?
- j) State whether transaction flow testing is structural or functional testing.
- k) Why are ambiguous domains formed?

PART – B

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

3 x 16 = 48 M

2. a) Explain the phases in Tester's mental life. 8 M

b) Illustrate structural bugs with examples. 8 M

3. Draw the flowgraph for the following code 16 M

```
void main()
{
int a=10,b=20;
if ( a>b)
    printf("A is bigger number.\n");
else
    printf("B is bigger number.\n");
}
```

Write the test cases to achieve C1+C2 coverage.

4. a) Explain the domain closure and domain dimensionality with diagram. 10 M

b) State different rules of path products. 6 M

5. a) Draw and explain the state graph for tape control recovery routine. 8 M

b) Differentiate between good state graphs and bad state graphs. 8 M

6. Explain partitioning algorithm. Apply the partitioning algorithm and recognize equivalent nodes for the following graph. 16 M

