

Code: IT7T2

**IV B.Tech - I Semester – Regular / Supplementary Examinations
JANUARY - 2022**

**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) What is extended development?
- b) State whether the given statement is true or false “static analysis cannot determine whether a piece of code is or is not reachable”.
- c) Explain Closure reversal.
- d) Draw the graph for the following matrix [0].
- e) Define Symmetric relations.
- f) Give an example of idempotent matrix.
- g) What do you mean by dynamic analysis in testing?
- h) Give an example of regular expression.
- i) What is Dead variable?
- j) What is du path testing strategy?
- k) Define the **on point**.

PART – B

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

3 x 16 = 48 M

2. a) Explain a model for testing with diagram. 8 M

b) What do you mean by interface? Explain different interfacing bugs. 8 M

3. a) Explain different kinds of testing blindness. Give examples for each. 10 M

b) What are dependent and independent predicates? 6 M

4. a) Explain the properties of nice domains with neat diagrams. 10 M

b) Explain Huang theorem with example. 6 M

5. a) Explain the rules of boolean algebra. 10 M

b) Simplify the boolean expression $(\sim A)(\sim B)+A(\sim B)+AB$.
Where \sim is the negation symbol. 6 M

6. a) Explain the steps in node reduction algorithm.

6 M

b) Find the path expression from node 1 to node 2 for the following graph matrix.

10 M

		a		
	d		b	
	c			f
	g	e		h