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P.E.S. College of Engineering, Mandya - 571 401
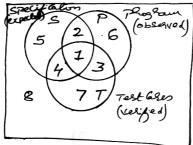### (An Autonomous Institution affiliated to VTU, Belagavi)
Eighth Semester, B.E. - Computer Science and Engineering
Semester End Examination; July - 2021
Software Testing

Time: 3 hrs   Max. Marks: 100

Note: Answer any **FIVE** full questions.

1	a.	Describe the eight regions shown in the Fig. Q 1 (a) with proper example.	10

fig: Q.1(a) specified, implemented and tested behaviors

	b.	What will the triangle 2 program do for the sides -3, -3, 5? Discuss this in terms of specified behavior and program behavior with test case.	10
2	a.	Differentiate between functional and structural testing with proper example.	10
	b.	With a code support, illustrate the implementation of commission problem.	10
3	a.	Develop a decision table for the "second try" at the NextDate function. At the end of a 31-day month, the day is always reset to 1. For all Non-December months the month is incremented; for December, the month is reset to January and the year is incremented.	10
	b.	Illustrate the purpose of using decision tables in testing.	10
4	a.	Explain decision to decision path graph with respect to stocks, locks, total locks, and sales with example.	10
	b.	Describe different style and technique used when we analyze a program in terms of interesting slices.	10
5	a.	List different views of a thread? Briefly explain basis concepts for requirements specifications.	10
	b.	Illustrate the pin entry state for finding threads.	10
6	a.	Describe the ground rules about threads and processor before defining their classification.	10
	b.	With an example, explain dynamic interactions in multiple processors.	10
7	a.	Illustrate how object-oriented calendar application is represented using collaboration diagram to support approaches for integration testing?	10
	b.	Explain the expressive framework where dataflow testing questions for object oriented software is described and analyzed.	10

8 a. Write the psudocode for testing logic and object with methods for currency conversion program using integration testing. 10

b. Write the Essential Use Cases (EUC) for currency converter application. 10

9 a. Describe different exploratory and context driven testing observations. 10

b. Illustrate Peterson's lattice models of computation. 10

10 a. Describe the advantages and disadvantages of test driven development. 10

b. List the basic principles which define context driven testing and the goals and techniques of exploratory testing. 10

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