

**Software Testing Concepts and Tools (BVSD-314)****5<sup>th</sup>Sem****Time allowed: 2 Hours****Maximum Marks: 60****Note: Attempt any four questions. All questions carry equal marks.**

Q1. Explain the process of testing. Explain the process of debugging.  
What is the difference between the two?

Q2. Boundary value analysis belongs to which testing technique? Explain.  
What is error guessing technique? Explain.

3. Explain Equivalence Partitioning technique and error guessing.  
What is Software Quality Assurance?

Q4. Explain Decision table testing.  
What are the roles of a tester? Explain in detail.

Q5. Explain the characteristics of Software to be developed.  
How will you build a test plan? Explain with an example.

Q6. What are the basics of manual testing? Explain.  
Explain how to write a test plan, with an example.

Q7. Explain fundamentals of automation testing.  
Explain automation life cycle.

Q8. Explain Agile testing methodology.  
Explain the principles and methods.

Q9. Attempt all parts:

1. What activities are performed in each phase of software testing
2. What is black box testing?
3. How are Structural testing and functional testing techniques different?
4. What is cause effect graphing technique?
5. What is the role of a tester?
6. What is meant by scope of testing?
7. What are the two parameters which can be useful to know the quality of test execution?
8. How will you conduct Risk Analysis?
9. What are the categories of debugging?
10. What is the information that should be covered in Test Plan?
11. What does a typical test report contain?
12. What are the challenges of software test automation?