CC-307 Software Testing

Unit-1 Introduction

1. What is software testing? List and explain goals of software testing.
2. What are the principles of software testing? Explain them.
3. Explain Software Testing Life Cycle (STLC).
4. What is V-testing life cycle model? How is it used? Explain in detail.
5. State the difference between static and dynamic testing?

Unit-2 Types of Testing

1. What is black box testing? List its different techniques. Explain any one in detail.
2. List methods of BVA and explain any two in detail.
3. How equivalence class testing is used in black box testing? Explain it in detail.
4. Explain decision table in detail.
5. What is white box testing? Why we need it?
6. Explain Logic coverage criteria with its various forms.
7. Write a short note on Basis Path Testing.
8. Explain Inspection process. Explain members of the inspection team with their role.
9. Explain structured walkthrough and technical review in detail.

Unit-3 Levels of Testing

1. What is unit testing? Discuss the role of Drivers and Stubs.
2. Write a short note on Call graph-based integration.
3. Explain Path based integration in detail.
4. What is function testing? Explain primary processes of it.
5. What is system testing? Explain its categories in brief.
6. What is acceptance testing? Explain its types.
7. Write a short note on alpha testing.
8. Write a short note on beta testing.
9. Give difference between alpha and beta testing.

Unit-4 Test Management

1. What is test management? Explain choice of standards in brief.
2. Explain elements of test infrastructure management in test management.
3. Write a short note on test process.
4. What is test reporting? Explain different types of test summary reports.
5. What is test planning? List all the steps of it. Explain any two in detail.

List of objectives: (Unit- 1, 2, 3) from textbook: Software Testing by Naresh Chauhan

Chapter	No. of objectives
1	1.1 to 1.6
2	2.1 to 2.14 (All)
4	4.1 to 4.11 (All)
5	5.1 to 5.9
6	6.1 to 6.9 , 6.19
7	7.1 to 7.12, 7.15, 7.19 to 7.24