

CS – 13: SAD, Software Quality Assurance and Testing

UNIT 1: System Analysis & Design AND Software Engineering, Concepts of Quality Assurance

1. Systems Analyst.
2. Explain: SDLC.
3. Explain: Fact – finding techniques.
4. Explain: DFD.

UNIT 2: Basics of Software Testing, Types of Software Testing, Verification and Validation

1. Explain: Testing Artifacts.
2. Explain: Static & Dynamic Testing.
3. Explain: Blackbox, Whitebox & GreyBox Testing.
4. What is Non-Functional Testing?

UNIT 3: Software Development Life Cycle Models, Automated Testing

1. Explain: Waterfall Model.
2. Explain: Iterative Model.
3. Explain: V-Model.
4. Explain: Spiral Model.
5. Explain: Big Bang Model.
6. Explain: Prototyping Model.
7. Explain: WinRunner & LoadRunner.

UNIT 4: Project Economics, Project scheduling and Tracking

1. Explain Concepts of Project Management.
2. Explain Empirical Project Estimation Techniques.
3. Explain Timeline chart.
4. Explain Pert Chart.
5. Explain: CoCoMo Model.

UNIT 5: CAD Project Management Tool, UML

1. Explain: MS-VISIO.
2. Explain: MS-Project.
3. Explain UML With Class Diagram, Use Case Diagram & Activity Diagram.