# System Analysis and Design

| SOURCE: 02 | System Analysis and Design |
|---|---|
| 01 | Introduction, Definition and Characteristics of System |
| 02 | Elements of System with Notes |
| 03 | Types of System with Notes |
| 04 | System Analyst Skills and Responsibilities with Notes |
| 05 | System Development Life Cycle SDLC with Notes |
| 06 | Requirement Analysis with Notes |
| 07 | Feasibility Study with Notes |
| 08 | Information Gathering Tools Part-1 |
| 09 | Information Gathering Tools Part-2 |
| 10 | Cost Benefit Analysis with Notes |
| 11 | Input Design |
| 12 | Output Design |
| 13 | Introduction to Modular and Structural Design |
| 14 | Top Down, Bottom Up Approach, Module Attributes and Types |
| 15 | Tools for Structured Design |
| 16 | Design Considerations |
| 17 | Coupling and Its Types |
| 18 | Coupling |
| 19 | Cohesion |
| 20 | Relationship Between Coupling and Cohesion |
| 21 | Introduction to Testing |
| 22 | Types of Testing Part-1 |
| 23 | Types of Testing – Functional Testing |
| 24 | Types of Testing – Non-Functional Testing |
| 25 | System Testing |
| 26 | System Implementation |
| 27 | Quality Assurance |
| 28 | Documentation |
| 29 | Concept, Importance and Types of System Maintenance |
| 30 | System Flow Chart |
| 31 | Data Flow Diagram (DFD) |
| 32 | Data Dictionary |
| 33 | Decision Tree |
| 34 | Decision Table |
| **SOURCE: 03** | **System Analysis and Design** |
| 01 | What is System Analysis \| What is System Design |
| 02 | What is System \| Elements of System |
| 03 | What is System \| Types of System in SAD |
| 04 | Who is System Analyst \| His Qualities, Role and Responsibilities |
| 05 | What is SDLC \| Phases of SDLC \| Importance of SDLC |
| 06 | What is Feasibility Study \| Types of Feasibility Study |
| 07 | What is SRS Document \| Feature or Characteristics of a Good SRS |
| 08 | What is Structured Analysis \| What is Structured Design |
| 09 | What is Data Flow Diagram (DFD) \| Types of DFD \| Levels of DFD |
| 10 | What is Data Dictionary \| Types of Data Dictionary and Advantages |
| 11 | What is Entity Relationship Diagram (ERD) \| What is ER-Model |
| 12 | SDLC Models \| What is Waterfall Model \| Advantages and Disadvantages |
| 13 | What is Iterative Model \| When to Use \| Advantage and Disadvantage |
| 14 | What is Prototype Model \| When to Use \| Advantage and Disadvantage |
| 15 | What is Spiral Model \| When to Use \| Advantage and Disadvantage |
| 16 | What are Information Gathering Tools |
| 17 | Cost Benefit Analysis \| Perform Cost Benefit Analysis |
| 18 | Decision Tree \| Decision Table |
| 19 | Software Testing \| Need of Software Testing and Importance |
| 20 | Types of Software Testing \| White Box Testing \| Black Box Testing |
| 21 | Functional Testing \| Non-Functional Testing |
| 22 | What is Software Design \| Basic Principle of Software Design |
| 23 | Coupling and Cohesion |
| **SOURCE: 01** | **System Analysis and Design** |