

## System Analysis and development

### Unit no :1 Structure of Business Information System

1	What is Information System? Explain all types / categories of Information Systems with example.	10/05
2	Who is the System Analyst? Define Roles and Attributes of System Analyst.	10/05
3	Explain System prototype method.	10/05
4	Explain system analysis and design in detail.	05
5	Explain Classical system development life cycle.	10
6	Explain term: system, system analysis, system design, system analyst, information system.	10
7	Explain Open and Close System with example	02
8	What is in your opinion the most difficult job for system analyst?	02
9	Explain TPS, MIS & DSS.	10
10	What is user? Write the categories of users.	02
11	Write a note on role and task of system analyst. OR Write a note on responsibilities of system analyst.	10
12	Define term code generator.	02
13	What is system? Explain characteristics and elements of system.	10
14	Differentiate between MIS and DSS.	03
15	Differentiate between open and closed system.	05
16	Differentiate between physical and abstract system.	05
17	Write a note on types of systems OR Explain sub system with example.	10
18	Write a note on Structured Analysis Development Method.	10
19	Write a note on Reasons for project proposals.	10
20	Write a note on Cost Benefit Analysis.	10

### Unit no :2 Requirement Analysts & Determination

1	Explain interview and questionnaire fact finding techniques with their merits & Demerits. Also state which one is better with respect to other?	10
2	Explain Record Inspection and Site visit fact gathering techniques with their merits & Demerits. Also state which one is better with respect to other?	10
3	Explain fact finding technique.	
4	Explain structured English with example.	10/05
5	What are decision tree, decision table and Data Dictionary? Explain with example.	10
6	Explain types of entry form in decision table with example.	05
7	Draw a context level and first level Data flow diagram for issue a book from library.	10
8	Explain Data flow Diagram with example.	10
9.	What is DFD? Explain first level of Physical DFD with example.	10
10.	What do you mean by Data Flow Diagram? What are the symbols used to design DFD? Explain in detail with example.	

### Unit no :3 Design of Input & Output

1	Explain Output Format types: Tabular format, Graphical format, Detailed Reports and Summary Reports with proper diagram and format.	10
2	What is Output? Explain output objectives, Output types and Key Output questions in detail.	10

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| 3  | <b>What is input verification and validation? Explain various input verification and validation methods with examples.</b> | 10 |
| 4  | <b>Write a detailed note on dialog design.</b>   | 10 |
| 5  | Error checking methods and Error messages.   | 10 |
| 6. | Write a note on Steering Committee Method.   | 10 |

### **Unit no :4 Design of Database & Software**

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| 1. | <b>Write a detailed note on HIPO model and Warnier / Orr diagram.</b>   | 10 |
| 2. | <b>Explain the Database Normalization in detail. OR<br/>What do you mean by Normalization? Explain 1NF, 2NF, &amp; 3NF in detail.</b> | 10 |
| 3. | <b>Explain Structured Flow charts with example. Also Explain Span of control.</b>   | 10 |
| 4. | <b>Explain the following:<br/>Cohesion &amp; Coupling<br/>Top – Down Structure of Modules</b>   | 10 |
| 5  | Explain the following terms with examples:<br>Strong & Weak entity<br>Structured Flow charts.   | 10 |
| 6. | Explain Top – Down Structure of Modules with suitable example.  | 10 |
| 7. | Explain VTOC [Virtual Table of Content] with subtype Hierarchy chart and content and also Functional Diagram.                         |    |

#### Case study

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|----|---|----|
| 1  | <b>How can we replace existing system with the new one? Explain different methods with diagram.</b>                 | 10 |
| 2  | <b>Define System testing, Unit testing &amp; list out special system test types only.</b>                           | 10 |
| 3. | Who is responsible for System Testing? Explain all levels of testing in detail.                                     | 20 |
| 4. | Explain various system conversion methods in detail.  | 20 |
|    | <b>OR</b>   |    |
|    | Implementation Methods with diagram and types.  |    |
| 5. | Explain parallel systems, pilot system, and phase-in system conversion methods in detail.                           | 10 |
| 6. | Consider the online movie ticket reservation system as a case study and draw primary level DFD and Data Dictionary. |    |