

**IMSc (CA & IT) Sem.-4 Examination
System Analysis Design & Modeling**

Time : 2-30 Hours]

April-2025

[Max. Marks : 70

Q.1. Attempt the following Question (any Two)

[14]

- a) Explain one of the Tools of Data Flow Strategy:
- 1) Data Flow Diagram
 - 2) Data Dictionary
- b) Write a short note on: SDLC.
- c) Explain Benefits/Advantages of Decision Support Systems.

Q.2. Attempt the following

- a) (i) Write down the responsibility of System Analyst [7]
(ii) Briefly explain users of the system
- b) Explain "Decision Tree" with example also mention Advantages of decision trees usages. [7]

[OR]

- a) CASE tools stand for? Explain Weakness of CASE tools. [7]
- b) Explain in detail different input coding methods. [7]

Q.3. A Attempt the following Questions (any Two)

[12]

- a) Explain DSS (Decision Support system)model: Behavioral Model, Management Science Models, Operations Research Models with example.
- b) Explain in brief Knowledge Management process.
- c) Explain in brief the Components of Structured Analysis

B Explain Explicit knowledge with an example.

[2]

[OR]

Explain Historical Method of Estimation.

[2]

Q.4 Attempt the following Questions(any Two)

[14]

- a) Explain scope and benefits of USE-CASE diagrams.
- b) Explain with figure elements of Activity diagrams. Also explain Join and Fork with example.
- c) Explain with figure class and their relationship (association, generalization, Aggregation) with example.

(P.T.O)

Q.5. **Answer the Following Questions(any Two)**

[14]

- a) Write short note on Group Decision Support System.
- b) Explain briefly activities included in system development life cycle.
- c) Explain steps in prototype method in detail with figure.

