

**IMSc CS (Rep) Sem.-4 Examination**  
**Structured & Object Oriented Analysis & Design**  
**January-2025**

Time : 3-00 Hours]

[Max. Marks : 70

**Instructions:**

- Write both the Sections in the separate answer book.
- Both Sections having equal weightage.
- Draw Diagrams wherever necessary.
- Make Assumptions wherever necessary.

**SECTION – I**

Q-1	Discuss following terms	07
	a) Structured and Unstructured decision	
	b) Technical and Economic feasibility	
Q-2	a) What forms of Decision tables are used?	07
	b) What is SDLC? Briefly describe the activities it includes.	07
OR		
Q-2	a) What is JAD? Also explain how JAD sessions are conducted with its advantage.	07
	b) What is DFD? Draw a context-level diagram of any system of your choice. Also explain any five rules of building DFD.	07
Q-3	a) Discuss benefits and weaknesses of CASE.	07
	b) What is Data-Dictionary? What does a Data-Dictionary record?	07
OR		
Q-3	a) Explain how interviews can be considered as an effective fact finding technique.	07
	b) Briefly describe each of the structures used in Structured English.	07

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SECTION – II

- Q-4 Discuss following terms 07  
a. Framework and Pattern  
b. Generalization and Association
- Q-5 a) Which are the ways in which one can devise a new system concepts? 07  
b) Explain any three steps of Application interaction model. 07  
OR
- Q-5 a) Which are the questions that must answer while designing a system? 07  
b) What are the problems which will limit the ability to reuse code from class libraries? 07
- Q-6 a) Explain any three steps to construct a domain class model. 07  
b) What is a use-case diagram? Draw an use-case diagram for online-shopping. 07  
OR
- Q-6 a) What is a class diagram? Explain all its elements with example. 07  
b) What is an activity diagram? Draw an activity diagram for withdrawal of money from ATM. 07

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