2006E548 Candidate's Seat No :_____

IMSc (CS) Semester 4 Examination
Structured & Object Oriented Analysis & Design

Time : 3-00 Hour] June-2024 [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) Logical and Physical DFD	
Q-2	a) Explain in brief Decision-tree with appropriate example.	07
	b) Discuss all the phases of SDLC.	07
	OR	
Q-2	a) What is JAD? Also explain how JAD sessions are conducted with its advantage.	07
	b) What is DFD? Explain all the elements of DFD. Also explain any five rules of building DFD.	07
Q-3	a) What is CASE? Explain the benefits and weakness of CASE.	07
	b) Explain all the relationships on which data-structures are built.	07
	OR	
Q-3	a) Discuss any one fact-finding techniques.	07
	b) Explain all types of table entries of Decision-table in detail.	07

P.T.O

SECTION – II

Q-4 Discuss following terms 07
  a. Framework and Pattern
  b. Generalization and Association

Q-5 a) How to prepare a problem statement? 07
  b) Explain any three steps of Application interaction model. 07
  OR
Q-5 a) Define libraries? Explain all the qualities of "good" class 07
  libraries.
  b) Which are the questions that must answer while designing a
  system? 07

Q-6 a) Explain any three steps to construct a domain class model. 07
  b) What is a use-case diagram? Explain all its elements with
  example. 07
  OR
Q-6 a) What is a class diagram? Explain all its elements with 07
  example.
  b) What is an activity diagram? Explain all its elements with
  example. 07

——✕——