

**PGDCSA Sem.-2 Examination
Object Oriented Analysis and Design**

Time : 3.00 Hours]

June-2025

[Max.Marks : 50

Instructions:

- Write both the Sections in the separate answer book.
- Numbers to the right indicate full marks of the question
- Draw Diagrams wherever necessary.
- Make Assumptions wherever necessary.

SECTION – I

- Q-1 Attempt the following (any three) 15**
1. Explain the following terms with example in brief:
 - i. System ii. Subsystem iii. Super System
 - iv. Functional decomposition v. system boundary
 2. List and explain various skill set required by system analyst.
 3. Write SDLC phases and objectives of each phase.
 4. List any five-information gathering techniques. Explain any one in detail.
 5. List various reasons why projects fail. Explain any two reason in detail.
- Q-2 Attempt the following 08**
1. Draw various symbol used in DFD.
- OR**
1. Compare: Logical DFD and Physical DFD.
 2. Draw Use case diagram for Library Management System of our department. List all the appropriate assumptions made by you to draw the Use case diagram.
- OR**
2. Explain the following relationship for use case with their symbol, meaning and example
 1. Communicates II. Includes III. Extends IV. Generalizes
- Q-3 Attempt the following (any two) 02**
1. Write only name of any two CASE tool.
 2. What do you mean by Breakeven point
 3. What do you mean by stack holders?
 4. Write full-form of CPM.

(P.T.O)

E787-2

SECTION – II

- Q-4 Attempt the following (any three) 15**
1. Explain the following terms in 1-2 lines
I. Unauthorized User II. Registered User III. Authorization IV. Access Control List V. Privileged User
 2. Explain 1. Unit testing 2. Integration Testing 3. Usability Testing . Who tests software?
 3. Write only name of various distributed database architectures. Explain any two with diagram.
 4. What do you mean by I. Internet II. Intranet III. Extranet IV. WWW V. VPN
 5. List and explain various types of outputs reports.
- Q-5 Attempt the following 8**
1. What are the three main components for Class Diagram? Which symbols are used in class diagram to represent visibility in class diagram? Differentiate Aggregation and Composition for class diagram with appropriate example.
 2. List and explain various symbols with their name and meaning used in activity diagram.
- OR**
- Q-5 Attempt the following 8**
1. Draw activity diagram for the Withdraw cash from ATM.
 2. List and explain various symbols with their name and meaning used in sequence diagram
- Q- 6 Attempt the following (any two) 02**
1. What do you mean by alpha version and beta version? What is the general lifetime for alpha version and beta version?
 2. How many keys are required in Asymmetric key encryption
 3. What is a Deployment Environment in system design?
 4. What is the purpose of the CRUD Matrix?