AHMEDABAD UNIVERSITY
School of Engineering and Applied Science
2025-2026 Monsoon

CSE300 Software Engineering
End-Term Make Up Examination
Friday 02 January 2026. 15:00 – 16:00

Name:	Roll no.	A	U	2						Marks 40

Write your answers in the answer book.

All the questions are compulsory.

1. Answer the following questions. *Marks*

(a) Write an XP user story that describes the "favorite places" or "bookmarks" feature available. *(2)*

(b) Describe the XP concepts of refactoring and pair programming *(2)*

(c) Why is "Crystal" called a family of agile methods? *(2)*

(d) Describe the concept of *separation of concerns.* *(2)*

(e) What is a spike solution in XP? *(2)*

2. Develop a complete use case (as per Cockburn template) for the following activities: *(10)*

(a) Using your credit card for a meal at a restaurant

(b) Buying a stock using an on-line brokerage account

3. Develop an entity-relationship diagram that describes data objects, relationships, and attributes for a simple invoicing system for a small business. (5)

4. Draw level-1 Data Flow Diagram for the HR Management System. (5)

5. Draw Swimlane Diagram for the HR Management System. (5)

6. Draw Use Case Diagram for the HR Management System. (5)