

**VIT**

Vellore Institute of Technology

REG.NO.:

SCHOOL OF COMPUTER SCIENCE ENGINEERING AND INFORMATION SYSTEMS
CONTINUOUS ASSESSMENT TEST - I
FALL SEMESTER 2025-2026

SLOT: A1 + TA1

Programme Name & Branch : BCA
Course Code and Course Name : UBCA103L - Software Engineering
Faculty Name(s) : Prof. Vani M P, Prof. Thilagavathi M
Class Number(s) : VL2025260105755, 5750
Date of Examination : 17/8/2025
Exam Duration : 90 minutes

Maximum Marks: 50

General instruction(s):

- Answer All Questions
- M - Max mark; CO - Course Outcome; BL - Blooms Taxonomy Level (1 - Remember, 2 - Understand, 3 - Apply, 4 - Analyse, 5 - Evaluate, 6 - Create)
- Course Outcomes
CO1 - Demonstrate the basics of software engineering process, ethics, and development.
CO2 - Illustrate the concept of various process models, activities, and its improvements.
CO3 - Analyze the various aspects of software requirement engineering and system models.

Q. No	Question	M	CO	BL
1.	a) Assume yourself to be a client who desires to develop a software for your organization. What according to you are the essential attributes that a good software should possess? List and explain them briefly. b) Software engineers should be ethical. Justify this statement.	5 5	1	3
2.	Assume that a company desires to develop a complex enterprise resource planning (ERP) system. The requirements are not fully defined at the outset and are expected to change as the business evolves, and/or feedback received from the clients. The project has a high risk of failure due to its complexity and potential for scope creep. Suggest a suitable software process model that might be used as a basis for managing the development of the ERP system. Justify your answer and explain that process model.	10	2	3
3.	Elaborate in detail the phases and workflows of the Rational Unified Process.	10	2	1
4.	Online Passport Seva Portal is to be developed to enable simple, efficient and transparent processes for delivery of passport and related services. The Ministry of External Affairs (MEA) is responsible for issuance of Passports to Indian Citizens through a network of 36 Passport offices across the Country and 190 Indian Missions and Posts abroad. Apart from creating a countrywide networked environment for Government staff, it integrates with the State Police for physical verification of applicant's credentials and with India Post for	10	3	3



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5. Elaborate in detail the different techniques that can be used to elicit user requirements.	10	3	
