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Vellore Institute of Technology

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**Continuous Assessment Test – I****Programme Name & Branch: B.Tech Computer Science and Engineering**

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**Course Name & Code: Software Design and Development, CSE1005****Class Number: VL2019205001523****Slot: B1****Faculty Name: Satish C J****Exam Duration: 90 Mins****Maximum Marks: 50****Answer ALL the Questions (5\*10=50)**

S.No.	Question	Course Outcome (CO)
1.	a) Give the difference between a project, process and product in a software organization with suitable examples [5 Marks] b) List the various activities carried out in the phases of a generic software process model. [5 Marks]	CO1
2.	Consider that you were asked to execute a project for automating VIT Transport Management process and the management has agreed to pay for 3000 man hours. The project should be delivered by 30 <sup>th</sup> May 2020. Chart a high level project schedule and identify the major milestones and deliverables. Construct a work break down structure (WBS) for your project and demonstrate the use of it. [10 Marks]	CO3
3.	a) Which process model will be apt if you are asked to develop a personal website for a CEO of a firm? Justify why you have chosen the process model. [5 Marks] b) Illustrate the significance of generalization, extends and includes clauses in Use Case Modelling with suitable examples. [5 Marks]	CO2
4.	a) Suppose you were the project manager for a project and you feel that you may be facing the following issues during project execution <ul style="list-style-type: none"> <li>Employee attrition</li> <li>Employees not trained with the required skills</li> <li>Management policy change</li> <li>Tools getting obsolete</li> </ul> Detail how you will handle each of these issues from a Risk Management perspective. [5 Marks]	CO3
	b) Rewrite the following nonfunctional requirements provided they are measurable and testable. [5 Marks] <ul style="list-style-type: none"> <li>System should provide high security</li> <li>System response time should be quick.</li> <li>System should support high availability.</li> <li>System should be easily usable.</li> </ul>	CO2
5	Construct a Use Case Model for a Loan Management System. The system should support the following functionalities. [5 Marks] <ul style="list-style-type: none"> <li>Users should be able to apply for loans using the system. (only users who are registered customers of the bank can apply for</li> </ul>	CO2

loans)

- Loan Officer should be able to review the submitted loan application online. If the user has not attached the necessary documents (aadhar id, bank statement, employment proof) then loan officer should be able to reject the application.
- Loan officer will approve the loan application for further processing if the application contains all the required data and documents.
- Bank Managers will get a report on the list of loan applications submitted every day at 5:30 P.M.

Construct the functional specification for the following scenarios using the given template. [5 Marks]

a) User submitting loan application online (Assume user fills 8 fields)

b) Report generation for Bank Manager on the submitted loan applications.

Use Case ID	
Use Case Name	
Summary	
Preconditions	
Success End Condition	
Failed End Condition	
Primary, Secondary Actors	
Trigger	
Description	