

Slot: G1+TG1

School of Computer Science Engineering and Information Systems

Fall Semester 2023-2024

Continuous Assessment Test – I

Programme Name & Branch: M.TECH (Computer Science(Virtusa) and Data Science Engg)
Course Name & Code: CSI1007- Software Engineering Principles

Class Number: 4141

Exam Duration: 90 Min.

Faculty Name(s): Dr. K.Uma, Dr.Gayathri.A

Maximum Marks: 50

General instructions: Attempt all FIVE questions each carrying 10 marks. Please be specific and brief in your answers.

Q.No.	Questions	Max Marks
1.	You are interacting with the MIS department of a large oil company with multiple departments. They have a complex regency system. Migrating the data from this legacy system is not difficult and would take considerable time. The oil company is very particular about processes, acceptance criteria and legal contracts. For the scenario described above, which life cycle model would you choose? Give the reason why you would prefer this model.	10
2.	Explain various activities performed in requirements elicitation with watch system that facilitates to set time and alarm as an example.	10
3.	This project is aimed at developing a web-based Leave Management Tool, which is of importance to either an organization or a college. The Easy Leave is an Intranet based application that can be accessed throughout the Organization or a specified group/Dept. This system can be used to automate the workflow of leave applications and their approvals. The periodic crediting of leave is automated. Identify functional and non-functional requirements for the above-mentioned scenario.	10
4.	A course management system (CMS) is a collection of software tools providing an online environment for course interactions. A CMS typically includes a variety of online tools and environments, such as: •An area for faculty posting of class materials such as course syllabus and handouts. •An area for student posting of papers and other assignments. •A grade book where faculty can record grades and each student can view his or her grades •An integrated email tool allowing participants to send announcement email messages to the entire class or to a subset of the entire class •A chat tool allowing synchronous communication among class participants •A threaded discussion board allowing asynchronous communication among participants. In addition, a CMS is typically integrated with other databases in the university so that students enrolled in a particular course are automatically registered in the CMS as participants in that course.	10

The Course Management System (CMS) is a web application for department personnel, Academic Senate, and Registrar staff to view, enter, and manage course information formerly Submitted via paper. Departments can use CMS to create new course proposals, submit changes for existing courses, and track the progress of proposals as they move through the stages of online approval.

5.

For the above scenario draw the use case diagram.
Identify the classes, and their relationships for the above Q.no.4 scenario of CMS web application and draw its corresponding Class diagram.