

105-36



VIT

Vellore Institute of Technology

Slot: AI+TAI
(Common batches)

School of Computer Science Engineering and Information Systems

Winter Semester -2024

Continuous Assessment Test – I

Programme Name & Branch: **B Tech (IT)**

Course Name & code: **BITE307L & Software Engineering**

Class Numbers: **VL2023240503914, VL2023240503990, VL2023240503930, VL2023240503936**

Faculty Names (Prof): Gunasekaran, Karthekeyan P, Santhosh Kumar SVN, Gayathri A

Exam Duration: 90 Min.

Maximum Marks: 50

General instruction(s):

Q.No.	Question
1.	Describe, why Boehm's spiral model is an adaptable model that can support both change avoidance and change tolerance activities.
2.	Scenario 1 A flight Booking system is a complete system that automates the booking process to help book flights online for particular seats available on various flights. Having a reliable and efficient booking system for your company is essential. At the same time, you must ensure that your booking system provides you with comprehensive information to improve your customer experience. One critical aspect of the business is securing reliable and efficient customer service. However, ensuring that your customer support team will deliver the best services without quality software solutions is hard. That's why we have developed a flight booking system that enables our customers to book their next flight in just a few minutes. For the given Scenario, Identify appropriate software process model and explain for the given scenario.
3.	Online Public Access Catalogue (OPAC) is an e -Library website which is part of Integrated Library System (ILS), also known as a Library Management System (LMS), and managed by a library or group of libraries. Patrons of the library can search library catalogue online to locate various resources - books, periodicals, audio and visual materials, or other items under control of the library. Patrons may reserve or renew item, provide feedback, and manage their account. Draw the class diagram for the given scenario
4.	By considering Scenario 1, Identify functional and non-functional requirements. Explain the significance of these requirements in efficient operation of the software.
5.	Tabulate the differences with instance between Association, Aggregation, generalization and Composition with an example.