

Roll No



**PRESIDENCY UNIVERSITY
BENGALURU**

**SCHOOL OF INFORMATION SCIENCE
MID TERM EXAMINATION - APR 2023**

Semester : Semester IV - 2021

Course Code : CSA2006

Course Name : Sem IV - CSA2006 - Fundamentals of Software Engineering

Program : BCG,BSD,BCA&BCV

Date : 12-APR-2023

Time : 2PM - 3.30PM

Max Marks : 50

Weightage : 25%

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Question paper consists of 3 parts.
- (iii) Scientific and non-programmable calculator are permitted.
- (iv) Do not write any information on the question paper other than Roll Number.

PART A

ANSWER ALL THE QUESTIONS

(5 X 2 = 10M)

1. State the steps in essence of software engineering practice.
(CO1) [Knowledge]
2. Explain which model of software development is well suited to the system where all the requirements are known at the start of a Project and remain stable throughout the project.
(CO1) [Knowledge]
3. list any two challenges involved in agile software development?
(CO1) [Knowledge]
4. List the goal for collaborative requirement gathering for eliciting requirement.
(CO2) [Knowledge]
5. Define Swimlane Diagram
(CO2) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS

(4 X 5 = 20M)

6. Define the essence of software practice
(CO1) [Comprehension]

7. Discuss about Scrum in detail with neat diagram?
(CO1) [Comprehension]
8. Explain about Requirement Engineering with example?
(CO2) [Comprehension]
9. Discuss about Design Characteristics in detail.
(CO2) [Comprehension]

PART C

ANSWER ALL THE QUESTIONS

(2 X 10 = 20M)

10. The transport department of Presidency University wants a bus tracking software where the students can track the bus location using a mobile application. Help the software development team to choose a software process model and explain how it will be helpful in the effective software development process.
(CO1) [Application]
11. Imagine you are designing the use case diagram for an online banking website. The banking website allows a customer to create a new savings account. There are also options for requesting loans and starting a fixed deposit. Elaborate the above system with suitable actors, and implement use cases with suitable extends and include relationships.
(CO2) [Application]