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**PRESIDENCY UNIVERSITY
BENGALURU**

**SCHOOL OF ENGINEERING
MID TERM EXAMINATION - OCT 2023**

Semester : Semester III - 2022

Course Code : CSE2014

Course Name : Sem III - CSE2014 - Software Engineering

Program : B. TECH

Date : 30-OCT-2023

Time : 2:00PM - 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.
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PART A

ANSWER ALL THE QUESTIONS

(5 X 2 = 10M)

1. Define the need for Software Engineering. (CO1) [Knowledge]
2. List out the four essence of software Practice. (CO1) [Knowledge]
3. List out the core principles of SDLC (CO1) [Knowledge]
4. What is software process model? (CO2) [Knowledge]
5. Define and compare functional and non-functional requirements. (CO2) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS

(4 X 5 = 20M)

6. Your client has requested a system for managing their inventory, and they need it delivered quickly. Explain how you would apply the principles of RAD to meet this requirement. (CO1) [Comprehension]
7. A large software development company is working on a complex, long-term project for a client. The client frequently requests changes and new features. How can an incremental model help manage client requests and ensure project success? (CO1) [Comprehension]

8. Draw Activity diagram for the following case. The user can search books, viewbooks without any fee but can download the Book only if he pays money. Provide the facility of managing the cart to the user, so that he can update his cart. (5 Marks)

(CO2) [Comprehension]

9. John wants to withdraw an amount of Rs.2000 from Indian bank ATM which is located in Hebbal. He entered a wrong password for three times and his account has been locked for 24 hours. For the above scenario identify the actors, use cases and draw the Use case diagram with neat sketches

(CO2) [Comprehension]

PART C

ANSWER THE FOLLOWING QUESTION

(1 X 20 = 20M)

10. A Federal banking customer needs a website to be developed. The basic set of features are well defined, however, the advanced features are thought to be evolving in future. The basic feature set includes development of retail portal for customer login, checking of account status and account balance. Advanced features include: account transfer, change of customer pin etc. Which model is suitable for the above scenario and compare the same with waterfall model with neat sketches.

(CO2,CO1) [Application]