Roll No



PRESIDENCY UNIVERSITY BENGALURU

SCHOOL OF ENGINEERING MID TERM EXAMINATION - MAY 2023

Semester: Semester VI - 2020 Date: 18-MAY-2023

Course Code: CSE2014 **Time**: 10.30AM - 12.00PM

Course Name: Sem VI - CSE2014 - Software Engineering

Max Marks: 60

Program: CSE

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	(10 X 2 = 20M)
1.	Justify the statement "Software doesn't wear out"	
2.	Mention the need for Software Engineering.	(CO1) [Knowledge]
2	Justify why prototyping model is an evolutionary model.	(CO1) [Knowledge]
		(CO1) [Knowledge]
4.	Draw the architecture of CASE environment	(CO2) [Knowledge]
5.	When should you use waterfall model?	(CO1) [Knowledge]
6.	Define system software. Give few examples of system softwares	, , , , , , , , , , , , , , , , , , , ,
7.	Define rapid throwaway prototyping.	(CO1) [Knowledge]
8	What is the essence of software engineering practice?	(CO1) [Knowledge]
		(CO1) [Knowledge]
9.	Differentaite unit testing from integration testing.	(CO1) [Knowledge]

- 10. Identify which type of requirement are the following
 - (i) If an alarm is received from a sensor, the system will report the alarm and halt until the alarm is acknowledged and cleared.
 - (ii)The system must send a confirmation email whenever an order is placed
 - (iii) The system must allow users to verify their accounts using their phone number.
 - (iv)A program running on Windows 10 must be able to run on Windows 11 without any change in its behavior and performance.

(CO2) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS

(4 X 5 = 20M)

11. Explain the characteristics of CASE tools.

(CO2) [Comprehension]

12. What is the goal of maintenance phase in software development model. Explain various types of maintenance that could be carried out during the lifetime of a software.

(CO1) [Comprehension]

13. Explain the various types of softwares.

(CO1) [Comprehension]

14. Draw activity diagram for Online order management system.

(CO2) [Comprehension]

PART C

ANSWER ALL THE QUESTIONS

(2 X 10 = 20M)

15. what is the general idea behind evolutionary models? Companies manufacturing products spend large amounts of money designing and developing their ideas. It makes sense for them to build models/prototypes of a product before it goes into production. It saves money. How can you justify the above statement about prototyping? Explain the advantages and disadavnatages of prototyping.

(CO1) [Application]

16. Describe the format of a SRS document. Presidency University Startup team has decided to develop a LMS that enables student and teacher to teach and learn in virtual mode. List the functional requirements of this project.

(CO2) [Application]