

Roll No



**PRESIDENCY UNIVERSITY
BENGALURU**

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

Semester : Semester VI -2020

Course Code : CSE2014

Course Name : Sem VI - CSE2014 - Software Engineering

Program : All Programs

Date : 17-APR-2023

Time : 2PM - 3:30PM

Max Marks : 60

Weightage : 30%

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. Define real time software. (CO1) [Knowledge]
2. Define Software Engineering (CO1) [Knowledge]
3. Justify the statement "Software engineers shall participate in lifelong learning" (CO1) [Knowledge]
4. What is feasibility study? (CO1) [Knowledge]
5. Mention three reasons why waterfall model is not deemed to be an ideal choice for software development. (CO1) [Knowledge]
6. List the core principles of SDLC (CO1) [Knowledge]
7. List the various tasks regions in the Spiral model. (CO1) [Knowledge]
8. what are the different types of prototyping? (CO1) [Knowledge]
9. Define functional requirements. (CO2) [Knowledge]
10. List the characteristics of CASE tools. (CO2) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS

(4 X 5 = 20M)

11. Explain the essence of professional software development.
(CO1) [Comprehension]
12. Explain various types of prototyping.
(CO1) [Comprehension]
13. Differentiate functional requirements from non functional requirements.
(CO2) [Comprehension]
14. Draw and explain the architecture of CASE environment.
(CO2) [Comprehension]

PART C

ANSWER ALL THE QUESTIONS

(2 X 10 = 20M)

15. A software company is developing projects based on the customer's requirements. The customer has provided well defined requirements to the developer. Developer is confused to decide between waterfall model and iterative waterfall model. Help the developer by comparing both the models and justify which model would be more suitable in this situation.
(CO1) [Application]
16. What is a use case diagram? Draw a use case diagram for an airline reservation system comprising of reservation facility, check-in facility and cancellation facility.
(CO2) [Application]