

Roll No



**PRESIDENCY UNIVERSITY
BENGALURU**

**SCHOOL OF ENGINEERING
END TERM EXAMINATION - JUN 2023**

Semester : Semester VI - 2020

Course Code : MEC4010

Course Name : Sem VI - MEC4010 - Product Life Cycle Management

Program : MEC

Date : 21-JUN-2023

Time : 9.30AM - 12.30PM

Max Marks : 100

Weightage : 50%

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. List any 2 leading PLM software packages.
(CO5) [Knowledge]
2. Explain briefly Entrepreneurial culture.
(CO4) [Knowledge]
3. Define Strategy.
(CO5) [Knowledge]
4. Write the Basic Learning Curve Equation with notation.
(CO4) [Knowledge]
5. Explain Adaptive changes in ECM.
(CO2) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS

(6 X 10 = 60M)

6. Rahul wants to implement PLM into his company, help him in understanding the full scope of PLM system requirements.
(CO5) [Comprehension]

7. Explain what is the difference between digitization and digitalization, and how do they contribute to digital transformation?
(CO4) [Comprehension]
8. What are the three types of bill of materials (BOM) mentioned in the provided answer, and how do they differ from each other in terms of their purpose and content?
(CO3) [Comprehension]
9. Perform a Feasibility Study on Indian High-Speed Rail Project.
(CO1) [Comprehension]
10. Explain the benefits of Digital manufacturing.
(CO4) [Comprehension]
11. Suppose you are posted in a position to take pivotal decision in an organisation. Develop and follow a PLM roadmap to guide system implementation.
(CO5) [Comprehension]

PART C

ANSWER ALL THE QUESTIONS

(2 X 15 = 30M)

12. How can the strategic planning and implementation of a Product Lifecycle Management (PLM) strategy be effectively described and understood?
(CO4,CO5) [Application]
13. Can you visually represent the progressive stages of digital manufacturing ramp-up in a well-organized diagram?
(CO4,CO5) [Application]