

Name:.....

Roll No.



ST.JOSEPH'S COLLEGE OF ENGINEERING AND TECHNOLOGY, PALAI
(An ISO 9001:2015 Certified College)

Affiliated to APJ Abdul Kalam Technological University

Department of Mechanical Engineering

Second Internal Test–Jun 2021

VIII Semester

Non Departmental Elective: Mechanical Engineering

MP 482 Product Development and Design

Time: 2 hr

Answer all Questions.

Max.Marks:50

PART-A

Q No.	Question	Mark	K Level	CO & K Level
1	Describe 'Value' of a product	3	K1	CO4-K2
2	Explain any one creativity exercise and narrate its application for a product development team.	4	K2	CO4-K2
3	Develop the logics for the selection of the right RP technique for a part/product.	4	K3	CO5-K2
4	Explain IPR and the methods to protect it.	4	K3	CO5-K3

PART-B

Q No.	Question	Mark	K Level	CO & K Level
1	Summarise the ergonomic needs of a product.	8	K2	CO4-K2
2	Explain the logics for dividing various functions in a man-machine system.	8	K3	CO4-K3
3	Illustrate, with example, the methodology and advantages of concurrent engineering.	9	K3	CO5-K3
4	With proper sketches, develop the layout for any two types of rapid prototyping methods.	10	K3	CO5-K3