



Roll No.											
----------	--	--	--	--	--	--	--	--	--	--	--

PRESIDENCY UNIVERSITY

BENGALURU

Mid - Term Examinations – October 2025

Date: 11-10-2025

Time: 09.30am to 11.00am

School: SOE	Program: B. Tech- Mechanical Engineering	
Course Code: MEC4005	Course Name: PRODUCTION TECHNIQUES-II	
Semester: V	Max Marks: 50	Weightage: 25%

CO - Levels	CO1	CO2	CO3	CO4	CO5
Marks	26	24	-	-	-

Instructions:

- (i) *Read all questions carefully and answer accordingly.*
- (ii) *Do not write anything on the question paper other than roll number.*

Part A

Answer ALL the Questions. Each question carries 2marks.

5Q x 2M=10M

1	List some examples of machine tool?	2 Marks	L1	CO2
2	List out the types of cutting fluids used in cutting operation	2 Marks	L1	CO1
3	What is multi point cutting tool used to remove material from work piece	2 Marks	L1	CO1
4	What is tool wear?	2 Marks	L1	CO1
5	What is tapping operation?	2 Marks	L1	CO2

Part B

Answer the Questions.

Total Marks 40M

6.	Explain the factors influencing the rake angle of single point cutting tool. As you know, tool failure may cause due to several reasons. Briefly explain flank and crater wear	10 Marks	L2	CO1
-----------	--	-----------------	-----------	------------

Or

7.	Explain detailly the effect of cutting tool parameters on tool life	10 Marks	L2	CO1
-----------	---	---------------------	-----------	------------

8.	Explain the tool life criteria cutting tool with simple sketch	10 Marks	L2	CO1
-----------	--	---------------------	-----------	------------

Or

9.	Briefly explain any five materials used for making tools	10 Marks	L2	CO1
-----------	--	---------------------	-----------	------------

10.	With sketch explain the specification of lathe machine	10 Marks	L2	CO2
------------	--	---------------------	-----------	------------

Or

11.	With sketch explain the different parts of drilling machine	10 Marks	L2	CO2
------------	---	---------------------	-----------	------------

12.	Compare 3 jaw and 4 jaw chuck used in lathe machine	10 Marks	L2	CO2
------------	---	---------------------	-----------	------------

Or

13.	Explain the thread cutting, counter boring and forming operations.	10 Marks	L2	CO2
------------	--	---------------------	-----------	------------