

Roll No



**PRESIDENCY UNIVERSITY
BENGALURU**

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

Semester : Semester V - 2021

Course Code : MEC4005

Course Name : Sem V - MEC4005 - Production Techniques-I

Program : B. TECH

Date : 6-NOV-2023

Time : 2:00PM - 3:30PM

Max Marks : 50

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

(5 X 2 = 10M)

1. Write the basic Working Principle of Lathe
(CO1) [Knowledge]
2. Define Thread and Taper Turning.
(CO2) [Knowledge]
3. Define Depth of Cut with empirical relation with respect to machining.
(CO2) [Knowledge]
4. List Lathe operations.
(CO2) [Knowledge]
5. List of properties of cutting fluids.
(CO2) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS

(4 X 5 = 20M)

6. List the advantages and disadvantages of cutting fluid
(CO3) [Comprehension]
7. Define Tool Wear and list the factors influence the tool wear.
(CO2) [Comprehension]
8. List the drawbacks observed when tool failure occurs and suggest suitable remedy.
(CO3) [Comprehension]

9. Differentiate between orthogonal and oblique cutting.

(CO3) [Comprehension]

PART C

ANSWER THE FOLLOWING QUESTION

(1 X 20 = 20M)

10. a) List and explain all the types of Chips in the machining
b) What is Cutting Fluid? Explain the purposes of cutting fluid.

(CO4) [Application]