

Roll No



**PRESIDENCY UNIVERSITY  
BENGALURU**

**SET B**

**SCHOOL OF ENGINEERING  
END TERM EXAMINATION - JAN 2024**

**Semester** : Semester V - 2021

**Course Code** : MEC4005

**Course Name** : Production Techniques-II

**Program** : B.Tech.

**Date** : 12-JAN-2024

**Time** : 9:30AM - 12:30 PM

**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**

**4 X 5M = 20M**

1. What is taper turning and mention the various methods to which taper is measured. (CO1) [Knowledge]
2. What are all major 5 drawbacks encountered when Tool Wear Occurred. (CO1) [Knowledge]
3. List the six methods of measuring tapers in precision. (CO1) [Knowledge]
4. List the advantages and disadvantages of water jet machining. (CO2) [Knowledge]

**PART B**

**ANSWER ALL THE QUESTIONS**

**5 X 10M = 50M**

5. Classify NC machines based on the parameters and list the stages of working principle of NC machine. (CO2) [Comprehension]
6. List the 5 different types of grinding wheel and list the applications of it. (CO3) [Comprehension]
7. With sketch explain working of Milling Machine and list its operations. (CO3) [Comprehension]
8. Write a note on specifications of grinding wheel. and list the characteristics and applications of grinding wheel. (CO3) [Comprehension]

9. Explain briefly the major purposes of cutting fluids. List the advantages and disadvantages of cutting fluids.

(CO4) [Comprehension]

### **PART C**

**ANSWER ALL THE QUESTIONS**

**2 X 15M = 30M**

10. With block diagram explain the fundamental components of an NC (Numerical Control) machine.  
(CO3) [Application]
11. Briefly explain Cutting Tools Used in machining.  
(CO5) [Application]