

Roll No



**PRESIDENCY UNIVERSITY
BENGALURU**

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

Semester : Semester VI -2020

Course Code : MEC3040

Course Name : Sem VI - MEC3040 - Modern Manufacturing Processes

Program : MEC

Date : 17-APR-2023

Time : 11:30AM - 1PM

Max Marks : 60

Weightage : 30%

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 FIVE QUESTIONS

5 X 2=10M

1. List the Basic Steps in the Powder Metallurgy Process (CO1) [Knowledge]
2. What are the 5 M's required to perform manufacturing activity? (CO1) [Knowledge]
3. What do you mean by Manufacturing Process? (CO1) [Knowledge]
4. What are the Components Produced by Casting Process (CO2) [Knowledge]
5. Explain the Fundamental Principle of USM (CO2) [Knowledge]

PART B

ANSWER ALL THE THREE QUESTIONS

3 X 10 = 30M

6. With the help of a sketch discuss the Information-processing cycle in a typical manufacturing firm. (CO1) [Comprehension]
7. With the help of a sketch explain the working of Abrasive Jet Machining Process (CO2) [Comprehension]
8. With the help of a sketch explain the Continuous Casting Process. (CO2) [Comprehension]

PART C

ANSWER THE ONE QUESTION

1 X 20 = 20M

9. With the help of a sketch explain the Plasma Arc Machining Process (CO2) [Application]