

Roll No																				
---------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--



**PRESIDENCY UNIVERSITY
BENGALURU**

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

Semester : Semester IV - 2021

Course Code : MEC2013

Course Name : Sem IV - MEC2013 - Production Techniques-I

Program : MEC

Date : 12-APR-2023

Time : 9.30AM - 11.00AM

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. Define Refractoriness and Permeability of moulding sand.

(CO1) [Knowledge]

2. List the steps involved in castig process.

(CO2) [Knowledge]

3. List the need of cores in casting processes.

(CO1) [Knowledge]

4. List 2 commonly used fuel gas for oxyfuel gas welding.

(CO2) [Knowledge]

5. List four devices used for gas welding processes.

(CO2) [Knowledge]

PART B

ANSWER ALL THE QUESTIONS

(2 X 10 = 20M)

6. Differentiate between Welding Vs. Casting process

(CO2) [Comprehension]

7. Shivam is working in isro as rocket motor department, he want to weld a component using argon gas atmosphere. Choose the welding suitable for given scenario and apply the same. (CO2) [Comprehension]

PART C

ANSWER THE FOLLOWING QUESTION

(1 X 20 = 20M)

- 8) With Sketch explain Shell casting in detail. (CO1) [Application]