



PRESIDENCY UNIVERSITY

BENGALURU

Roll No.														
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End - Term Examinations – MAY/JUNE 2025

Date: 06-06-2025

Time: 01:00 pm – 04:00 pm

School: SOE	Program: B. Tech-MEC	
Course Code : MEC2013	Course Name: Production Techniques-I	
Semester: IV	Max Marks:100	Weightage: 50%

CO - Levels	C01	C02	C03	C04	C05
Marks	26	48	26	-	-

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.

10Q x 2M=20M

1.	What is Casting in sand moulding?	2 Marks	L1	C01
2.	List out the applications of TIG welding.	2 Marks	L1	C01
3.	What are the disadvantages of sand casting?	2 Marks	L1	C01
4.	What is metal removal process give examples.	2 Marks	L1	C02
5.	What is extrusion process?	2 Marks	L1	C02
6.	What is sheet metal forming?	2 Marks	L1	C02
7.	What are the applications of Sheet metal forming process?	2 Marks	L1	C02
8.	What is up-milling?	2 Marks	L1	C03
9.	What is counter sinking in drilling?	2 Marks	L1	C03
10.	What are the methods of taper turning operations.	2 Marks	L1	C03

Part B

Answer the Questions.

Total Marks 80M

11.	a.	Explain types of flames produced depending upon the oxygen and acetylene gas mixture with its applications.	10 Marks	L2	CO1
	b.	Explain the principle of gas welding with simple sketch.	10 Marks	L2	CO1
Or					
12.	a.	Explain the friction stir welding process with its advantages.	10 Marks	L2	CO1
	b.	Differentiate between welding, brazing and soldering operations.	10 Marks	L2	CO1
13.	a.	With simple sketch explain three and four rolling mill process for deforming metals by passing between pair of rolls with its advantages	15 Marks	L2	CO2
	b.	Differentiate between hot and cold working process.	5 Marks	L2	CO2
Or					
14.	a.	Describe the Tube drawing with a floating mandrel or plug with advantages.	15 Marks	L2	CO2
	b.	Explain any two sheet metal operation performed on the sheets	5 marks	L2	CO2
15.	a.	Explain any five rolling defects with causes and corrective action.	15 Marks	L2	CO2
	b.	Differentiate between open and closed die forging.	5 marks	L2	CO2
Or					
16.	a.	Describe the Tube drawing with a floating mandrel or plug with advantages.	15 Marks	L2	CO2
	b.	Write short note on In-direct extrusion process in metal forming.	5 Marks	L2	CO2
17.	a.	Explain any five operations of lathe machine on a work piece.	15 Marks	L2	CO3
	b.	Differentiate between up-milling and down-milling process.	5 Marks	L2	CO3
Or					
18.	a.	Describe the different parts of drilling machine with simple diagram	15 Marks	L2	CO3
	b.	Explain any two operations of lathe machine.	5 Marks	L2	CO3