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**PRESIDENCY UNIVERSITY  
BENGALURU  
SCHOOL OF ENGINEERING  
END TERM EXAMINATION - AUG 2024**

<b>Semester :IV</b>	<b>Date :19/8/2024</b>
<b>Course Code :MEC3088</b>	<b>Time :9:30 PM TO 12:30 PM</b>
<b>Course Name :Production Techniques-I</b>	<b>Max Marks :100</b>
<b>Program :B.Tech</b>	<b>Weightage :50%</b>

**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.

<b>PART A</b>			
<b>ANSWER ANY 5 QUESTIONS</b>		<b>5Q X 6M=30M</b>	
1	List out the advantages and disadvantages of sand casting	(CO1)	[Knowledge]
2	What are the application of welding process?	(CO1)	[Knowledge]
3	What is plastic deformation and metal removal process? Give examples for each process	(CO2)	[Knowledge]
4	what are open die and close die forging? List out application	(CO2)	[Knowledge]
5	What is rolling? List out the types of rolling and its applications	(CO2)	[Knowledge]
6	What are the difference between up milling and down milling process	(CO3)	[Knowledge]
7	What is machine tool? List out the functions of machine tool	(CO3)	[Knowledge]

<b>PART B</b>			
<b>ANSWER ANY 4 QUESTIONS</b>		<b>4Q X 10M=40M</b>	
8	Moulding sand are used plays an important role in shaping the casting of product. What are the properties of moulding sand should possess to get a better casting?	(CO1)	[Comprehension]
9	Differentiate between Hot working and Cold working in metal forming process with examples	(CO2)	[Comprehension]
10	Explain metal characteristics affecting sheet metal processing	(CO2)	[Comprehension]

11	Explain the tube drawing with fixed mandrel or plug with its advantages and limitations	(CO2)	[Comprehension]
12	The drilling machine is used to make a circular hole of different size and other related operations using a drill bit. Explain any four drilling machine operation performed on work piece	(CO3)	[Comprehension]
13	Shaping machines are generally used for producing flat surfaces, grooving, splitting. With simple diagram explain the major parts of shaper machine	(CO3)	[Comprehension]

**PART C**

**ANSWER ANY 2 QUESTIONS**

**2Q X 15M=30M**

14	Improper welding leads to collapse of structure and joints. Explain defects associated in welding process with causes and remedies	(C01)	[Application]
15	Explain the sheet metal operation performed on the sheet metal with simple sketch.	(CO2)	[Application]
16	With simple sketch explain nay five lathe machine operation performed on the circular work pieces.	(CO3)	[Application]