

**PRAGATI ENGINEERING COLLEGE: SURAMPALEM**  
**(AUTONOMOUS)**  
**II B.Tech II Semester Regular/Supplementary Examinations- May-2024**  
**PRODUCTION TECHNOLOGY**  
**(ME)**

Time: 3 hours

Max. Marks: 70

**Answer ONE Question from each Unit**  
**All Questions Carry Equal Marks**

Q. No.	Questions	BTL	CO	Marks
<b>UNIT – I</b>				
1.	a) What are the steps involved in casting process? Explain each of them with neat sketches?	K1	CO1	7
	b) What type of material used in pattern making? Mention its Reasons and uses?	K2	CO1	7
<b>OR</b>				
2.	a) What is core? Explain about its use in mold casting?	K1	CO1	7
	b) What elements have to be considered while design a gating system?	K2	CO1	7
<b>UNIT – II</b>				
3.	Explain about how steel melted in cupola furnace? Explain its stages with a neat sketches?	K1	CO2	14
<b>OR</b>				
4.	a) What is riser? Explain about blind risers?	K1	CO2	7
	b) Briefly explain about shell casting process?	K1	CO2	7
<b>UNIT – III</b>				
5.	a) Briefly explain about weld bead geometry? With a neat sketch?	K2	CO3	7
	b) What are the zones in welding flame? Explain its types?	K1	CO3	7
<b>OR</b>				
6.	a) Explain about laser beam welding process with a neat schematic diagram?	K2	CO3	7
	b) Write about soldering and its types?	K1	CO3	7
<b>UNIT – IV</b>				
7.	a) What is spring back? How it effect the process? Remedies?	K3	CO4	7
	b) How tubes are made from drawing operation? Explain?	K2	CO4	7
<b>OR</b>				
8.	a) What is a rolling mill? Write short notes on cluster rolling mill?	K1	CO4	7
	b) Briefly explain about how cooking utensils are made from spinning process with example?	K2	CO4	7
<b>UNIT – V</b>				
9.	Explain how plastic over head tanks can be made? What steps we have to take in the process?	K3	CO5	14
<b>OR</b>				
10.	a) What is thermo forming? Mention its types? Give a short notes on matched die forming?	K2	CO5	7
	b) What are the differences in sintering and casting processes?	K1	CO5	7