6(5) 13

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	Production Technology (Common to ME, MCT, AME)	,		
Time: 3 hours		M	Max. Marks: 75	
### * * * * * * * * * * * * * * * * * *	Answer any five questions All questions carry equal marks	**************************************	SR	**************************************
1.a)	What are the materials that are generally used for the reasons for their choice: What are the common allowances provided on pat are provided? Give suitable examples.	0 0 8 0 0 0 8 0	****	SF
2.a) b) 	Describe the solidification of a pure metal with a neat a What are different zones in cupola? Explain. Explain the process of thermit welding and discuss its	advantages.	[15]	
b)	Explain Oxy-Acetylene Gas Cutting process with a near	at diagram.	[15]	
4.a) b) in: 5.a) b)	State the causes for welding defects and suggest remed Distinguish between TIG welding and MIG welding? Compare the properties of cold and hot worked parts. On a certain mill the rolling load for 25% reduction is the rolling load when front and back tensions of 120	S 7KN/mm		SF
	$\sigma_0 = 13$ KN/mm ² and $\alpha = 2\beta$.		[15]	
6.a). b)	Differentiate among wire drawing, tube drawing and distinguish between embossing and coining.	eep.drawing	operations	* * * * * * * * * * * * * * * * * * *
c)	How the process of spinning is performed.		[15]	
7.a)	Sketch and explain the following press tools. i) Progressive die ::::::::::::::::::::::::::::::::::	SR	SR	
b)	iii) Combination die. What is roll forging? Explain in detail with a neat diag	ram.	[15]	
8.a) b)	Select suitable raw material and manufacturing proplastic components giving reasons. State the advantages and limitations of plastics engineering material.	cess for any	y two common	BF
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