Set 13-05 Market	Reg. No. :		0.000				
G	Question Paper Code: 50856						
ME (Common to : Inde	EGREE EXAMINATION, NOV. Third/Fifth Semeste Mechanical Engineeri 6302 – MANUFACTURING TE (Regulations 2013) ustrial Engineering/Industrial Engineering (Sandwich)/Mechanical	er ing CCHNOLOGY – I	W (A S				
Time: Three Hours		Maximum: 100					
	Answer ALL questions PART – A	s. (10×2=20 M					
1. What is natural i	noulding sand ? Give its Constitue	ents.	(i (d				
2. What are hot spo	ts and hot tears?						
3. How does penetra	ation vary for DCSP and DCRP we	elding?					
4. Define the terms	weld decay' and 'dilution'.	Discussions one method of (OR)					
5. Differentiate flat	rolling and shape rolling.						
6. What is precision		eachine the process of extrustraces					
7. What is spring ba	ck in sheet metal bending?						
8. Distinguish redra	wing and reverse drawing.	synays					
9. What are common	nly used fillers?	lame and describe any one of t illumination of the roll and					
10. Define 'potting' ar	. 3 ()						

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		P	ART – B		(5×13=65 Ma	arks)
1.		Draw the cupola furnace and In operations and various zones pres		arious zones in	it. Describe it	S
		(OR)				
	b)	Name any 2 casting defects and it (i) Metallic projection (ii) Cavities			Control of the Contro	+4+5)
2.	a)	With suitable diagram, discuss the welding. What are functions and na	ne principle a mes of shieldi	nd variables of ing gases used in	operation in TIC n TIG and MIG?	3
		george (OR)				
	b)	What is explosive welding? Descripplications.	ribe its princi	ple, process par	rameters and	
3.	a)	Name the different types of rolling	g mills. Expla	in any 4 types	with neat sketch	1.
		(OR)				
		i) Explain the process of making		be.		(7)
		ii) Discuss how the tubes for share	ving creams/t	ooth paste is pr	roduced.	(6)
14.	a)	i) What is stretch forming? Exp metal parts.	lain how it is	useful for form	ing large sheet	(6)
		ii) Discuss any one method of tes	sting the form	ability of sheet	metal.	(7)
		(OR)				
	b)	What is High Energy Rate Form 2 in detail.	ing? List the	different types		у
15.	a)	Describe the process of extrusion process.		ame some prod		is
		(OR)				
	b)	Name and explain the suitable pra syringe.	rocess for pro	ducing the barr	el and plunger o	of
		I	PART - C		(1×15=15 M	arks)
16.	a)	Name and describe any one of the different coefficient of thermal ex		ining dissimilar	materials havin	ıg
		(OR)				
	b)	Suggest and explain suitable proits capabilities.	cess for formi	ng Hearing-aid	le. Also, highligh	nt