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	Reg. No. :			98 139
asian rest	Overtion D	onen Cede	. 01826	
L	Question Pa	aper Code	: 91000	
(Common Industria	Mecha ME 6302 – MANUFA to Mechanical Engin- al Engineering and M E	d/Fifth Semester inical Engineerin ACTURING TEO eering (Sandwick Management/Meo Engineering) gulations 2013) – Manufacturin	ng CHNOLOGY – I h)/Industrial Engine chanical and Automa g Technology – I for 1	ering/ tion
Time : Three Ho	erakib) =5 siqii) — —		Maximum :	100 Marks
	Answ	er ALL questions	Replace the store of	
		PART – A	(10×2=	20 Marks)
1. What is the	ideal profile of a sprue	e?		
2. What is me	ant by core print?			
3. Name vario	ous causes for the defec	et porosity in the	welding.	
4. Write the d	ifference between braz	ing and soldering	Why is the thorougher.	
5. Why is the s	surface finish of a rolled	product better in o	cold rolling than in hot r	olling?
6. Define the t	term rate sensitivity.			
7. What are th	ne two most common sl	hearing operation	s?	
8. What is me	ant by spring back in s	sheet metal work	?	
9. Define Ther	rmo forming process.			
10. Mention an	y two applications of B	Blow moulding pro	ocess.	

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91	836)				
				PART – B	(5×13=65 M	arks
11.	a)		Explain the properties r Explain the preparation			
			(OR)			
	b)	i) ii)	Explain any one type of Name any five casting d	centrifugal casting w lefects and explain the	ith neat diagram. e remedies for those defect	s.
12.	a)	i)	What are the advantages types of assembly operat	s and disadvantages o	of welding compared to other	er
		ii)	What is the principle of	resistance welding pr	rocesses ?	
			(OR)			
	b)	Ex	plain gas metal arc weld	ing process with a ne	at diagram.	
13.	a)	i)	Explain with neat sketc	hes various types of r	olling stand arrangement.	
			Explain with a neat ske (OR)			
	b)	i)	17. Victoria	and limitations of hot	t working and cold working	
	277.00	ii)	Explain the steps involv	red in drop forging with	th neat sketches.	g.
14.	a)	Wi	th neat sketches explain	the sequence of the S	tretch forming process.	(13)
			(OR)			
	b)	Wi	th a neat sketch explain	the explosive forming	process.	(13)
15.	a)	De (i)	scribe the following plast Compression moulding (i (OR)	ic processing methods i) Blow moulding.	s with neat sketches	(7+6)
	b)	i)		g a valuable method fo	r the plastic manufacturer	(7)
		ii)			Plasticizers (2) Fillers and	(.,
			(3) Stabilizer.			(6)
				PART – C	(1×15=15 M	
16.		wel	cuss the principle and a ding processes for joining utomotive sector.	applications of friction	n welding and friction sti ons of Aluminium alloys u	r
			(OR)			
					ers from other high speed	
		forn	ning operations. Discuss	its principle and key	applications in military.	(15)
			1			
				*		