Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-V • EXAMINATION - WINTER • 2014

Subje	ect (Code: 151901 Date: 26-11-2	014
Subj	ect l	Name: Manufacturing Processes - II	
Time	: 10	0.30 am - 01.00 pm Total Marks:	: 70
Instru	ction	s:	
		Attempt all questions.	
		Make suitable assumptions wherever necessary.	
	3.	Figures to the right indicate full marks.	
Q.1	(a)	Write the steps for making a casting by the removable pattern sand mould casting process.	07
	(b)		07
	` /	(i) Loose piece pattern (ii) sweep pattern (iii) Match plate pattern.	
Q.2	(a)		07
		(i) Function of additives in moulding sand	
		(ii) Various types of cores used in casting.	
	(b)		07
	(1.)	OR Weiter about water an UShall Moralding Mathe di	07
	(b)	Write short note on "Shell Moulding Method".	07
Q.3	(a)	Discuss the merits and demerits of A.C. and D.C. power sources.	07
Q.J	(a)	Explain straight and reverse polarity.	U/
	(b)		07
	(~)	OR	0.
Q.3	(a)	Explain seam werding process with the help of sketch. How does it	07
		differ from spot welding?	
	(b)		07
Q.4	(a)	Explain electron beam welding. State its applications,	07
	(b)		07
0.4	()	OR	0=
Q.4		Define forging. Give its merits, demerits and applications.	07
	(b)	Compare direct and indirect extrusion.	07
Q.5	(a)	Explain blanking, piercing, coining, embossing, drawing and squeezing.	07
	(b)	What are the characteristics of thermoplastics? How does it differ from	07
		thermosetting plastics?	
		OR	
Q.5	(a)	1 01	07
	(b)	Explain compression process of moulding plastics.	07
