## **GUJARAT TECHNOLOGICAL UNIVERSITY** BE - SEMESTER-V • EXAMINATION – WINTER • 2014

Subject Code: 151901 Date: 26-11-2014			
Subject Name: Manufacturing Processes - II			
Time: 10.30 am - 01.00 pm Total Marks:			: 70
Instructions:			
		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	07
C		mould casting process.	
	(b)	With the help of diagram discuss the following types of pattern	07
		(i) Loose piece pattern (ii) sweep pattern (iii) Match plate pattern.	
Q.2	(a)	Explain following	07
Q.2	(a)	(i) Function of additives in moulding sand	07
		(ii) Various types of cores used in casting.	
	(b)		07
		OR	
	(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
<b>C</b> <sup>10</sup>	()	Explain straight and reverse polarity.	
	(b)		07
		OR	
Q.3	(a)	Explain seam welding process with the help of sketch. How does it	07
		differ from spot welding?	
	(b)	Explain various flames produced in an Oxy-acetylene gas welding.	07
Q.4	(a)	Explain electron beam welding. State its applications,	07
-	(b)	Discuss strain rate effect and metallurgy structure in metal working.	07
		OR	
Q.4	(a)		07
	(b)	Compare direct and indirect extrusion.	07
Q.5	(a)	Explain blanking, piercing, coining, embossing, drawing and squeezing.	07
Q.5	(b)		07
		thermosetting plastics?	07
		OR	
Q.5	(a)		07
	<b>(b)</b>	Explain compression process of moulding plastics.	07

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