Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

PDDC - SEMESTER – V • EXAMINATION – WINTER 2012

Subject code: X 51902 **Date: 17/01/2013**

Subject Name: Manufacturing Process-II

Time: 02.30 pm - 05.00 pm **Total Marks: 70**

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	List the factors that need to be considered for selecting manufacturing process and explain their significance.	**07**
	(b)	Explain different hand tools used in moulding.	**07**
Q.2	**(a)**	List the types of sand moulds and explain any three.	**07**
	(b)	Explain the properties of the core.	**07**
		OR	
	(b)	With neat sketches explain the steps involved in making a two box sand mould.	**07**
Q.3	**(a)**	List the functions of the gating system.	**07**
	(b)	Explain mechanical surface cleaning processes.	**07**
		OR	
Q.3	**(a)**	List common sand casting defects.	**07**
	(b)	Explain super finishing and buffing processes.	**07**
Q.4	**(a)**	Explain oxy-acetylene flames.	**07**
	(b)	With neat sketch explain MIG welding.	**07**
		OR	
Q.4	**(a)**	Explain Resistance Welding process and differentiate spot welding & seam welding.	**07**
	(b)	Differentiate Soldering & Brazing	**07**
Q.5	**(a)**	Explain different forging operations.	**07**
	(b)	Explain hot & cold extrusions with their advantages & disadvantages.	**07**
		OR	
Q.5	**(a)**	With neat sketches explain die shearing operations.	**07**
	(b)	Explain different thermosetting plastics.	**07**

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