## **GUJARAT TECHNOLOGICAL UNIVERSITY BE- V<sup>th</sup> SEMESTER-EXAMINATION – MAY/JUNE - 2012**

Subject code: 151901

Subject Name: Manufacturing Process -II

Time: 02:30 pm – 05:00 pm

## **Instructions:**

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.
- 07 (a) List various materials used for pattern and describe it's merits and demerits. 0.1
  - (b) Classify the metal joining process along with the types of welding process. 07 Explain oxy-hydrogen welding process with neat sketch.
- (a) Distinguish hot working process and cold working process with it's merits and Q.2 07 demerits.
  - (b) Classify the types of pattern. Explain the skeleton pattern with neat sketch. 07

OR

- (b) Describe core making and core materials briefly.
- (a) Explain "Centrifugal Casting" method with neat sketch along with it's Q.3 07 advantages over conventional green sand moulding.
  - (b) Classify the types of foundary furnaces. Describe cupola furnace with neat 07 sketch.

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Q.3	<b>(a)</b>	Describe casting detects stating their causes and remedies.	07
	<b>(b)</b>	Distinguish article process and resistance welding process briefly.	07
		Explain the resistance welding cycles.	
Q.4	(a)	What is laser beam welding process? Explain the steps involved in the process	07
-		and state it's application.	
	<b>(b)</b>	Distinguish TIG and MIG welding process.	07
		OR	
Q.4	(a)	Describe wire and tube drawing process with neat sketch.	07
-	<b>(b)</b>	Classify the cold working processes. Explain Coining and Embossing process	07
		with neat sketch.	
Q.5	(a)	Explain elastic and plastic deformation process briefly.	07
	(b)	Classify the types of plastics along with the general properties of plastics.	07
		OR	

(a) Describe injection moulding process of plastic with neat sketch. 07 Q.5 (b) Distinguish extrusion and thermoforming process of plastics. 07

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Date: 01/06/2012

**Total Marks: 70** 

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