Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY BE- Vth SEMESTER-EXAMINATION - MAY/JUNE - 2012

BE- Vth SEMESTER-EXAMINATION – MAY/JUNE - 2012 Subject code: 151901 Date:

Date: 01/06/2012

Subje	ect N	ame: Manufacturing Process -II	
Time	Time: 02:30 pm – 05:00 pm Total Mark		70
Instr	ucti	ons:	
1.	Atte	empt all questions.	
		te suitable assumptions wherever necessary.	
3.	Figu	res to the right indicate full marks.	
Q.1	(a) (b)	List various materials used for pattern and describe it's merits and demerits. Classify the metal joining process along with the types of welding process. Explain oxy-hydrogen welding process with neat sketch.	07 07
Q.2	(a)	Distinguish hot working process and cold working process with it's merits and demerits.	07
	(b)	Classify the types of pattern. Explain the skeleton pattern with neat sketch. OR	07
	(b)	Describe core making and core materials briefly.	07
Q.3	(a)	Explain "Centrifugal Casting" method with neat sketch along with it's advantages over conventional green sand moulding.	07
	(b)	Classify the types of foundary furnaces. Describe cupola furnace with neat sketch.	07
		OR	
Q.3	(a) (b)	Describe casting defects stating their causes and remedies. Distinguish arc welding process and resistance welding process briefly. Explain the resistance welding cycles.	07 07
Q.4	(a)	What is laser beam welding process? Explain the steps involved in the process and state it's application.	07
	(b)	Distinguish TIG and MIG welding process. OR	07
Q.4	(a)	Describe wire and tube drawing process with neat sketch.	07
	(b)	Classify the cold working processes. Explain Coining and Embossing process with neat sketch.	07
Q.5	(a)	Explain elastic and plastic deformation process briefly.	07
-	(b)	Classify the types of plastics along with the general properties of plastics. OR	07
Q.5	(a)	Describe injection moulding process of plastic with neat sketch.	07
	(b)	Distinguish extrusion and thermoforming process of plastics.	07
