## GUJARAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER- V • EXAMINATION - WINTER 2016

## Subject Code: 151901 Subject Name: 02:30PM – 05:00PM Instructions:

## Date: 25/11/2016 Total Marks: 70

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

<b>Q.</b> 1	1 (a		07
	(b	custing process.	
Q.:			07 07
	(b		07
	(b)		07
Q.3	(a)	In industry the rolls are cooled with a spray of water during hot rolling of steels. Why? State products, which are manufactured by rolling process. Explain advantages of rolling processes.	• •
	(b)	Describe wire and tube drawing process with neat sketch.	07
Q.3	(a) (b)	OR What is elastic and plastic deformation? Explain in details. Explain lancing with example. (i) What are the advantages of hot working over cold working of metals?	07
		(ii) Explain the term ingot, slab, bloom and billet.	03
Q.4	<b>(a)</b>	Distinguish arc welding process and register as and it	04
-	(b)	Distinguish arc welding process and resistance welding process briefly. Distinguish TIG and MIG welding process Also punching and blanking.	07 07
Q.4	(a)	What is laser been welding on a second second	
2	(a) (b)	What is laser beam welding process? Explain the steps involved in the process Explain the factors involved in electrode selection in arc welding processes.	07 07
Q.5	(a) (b)	Describe injection moulding process of plastic with neat sketch. Distinguish extrusion and thermoforming process of plastics.	07 07
Q.5	(a) (b)	<b>OR</b> List the various super finishing processes and explain any two of them. Classify the types of plastics along with the general properties of plastics.	07 07 1

\*\*\*\*\*