

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-IV(New) EXAMINATION – SUMMER 2016

Subject Code:2141908**Date:08/06/2016****Subject Name:Manufacturing Processes -II****Time:10:30 AM to 01:00 PM****Total Marks: 70****Instructions:**

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

		MARKS
Q.1	Short Questions (Define or answer in one sentence)	14
	1 Ingot	
	2 Slab	
	3 Bloom	
	4 Billet	
	5 Corner joint	
	6 Edge joint	
	7 Collapsibility	
	8 Permeability	
	9 Sweep	
	10 Draft allowance	
	11 Fettling	
	12 Honing	
	13 Lapping	
	14 Calendaring	
Q.2	(a) Importance of recrystallization temperature for mechanical working processes.	03
	(b) Explain the importance of Manufacturing Processes in context of recent development.	04
	(c) Differentiate between Hot and Cold working processes.	07
	OR	
	(c) What are the different types of patterns? Describe any two with figure.	07
Q.3	(a) State the Chvorinov's rule. Discuss it briefly.	03
	(b) What is taper or draft? Explain it briefly.	04
	(c) What is permanent mould casting? Describe Die casting with figure.	07
	OR	
Q.3	(a) Sketch and label four positions of welding.	03
	(b) Enlist the types of flame for gas welding and describe anyone with neat sketch.	04
	(c) Classify the metal joining processes.	07
Q.4	(a) Explain the effect of Strain Hardening.	03
	(b) State difference between direct and indirect extrusion with sketch.	04
	(c) Describe the Atomic Hydrogen Welding with neat sketch.	07
	OR	
Q.4	(a) With neat sketch explain punching and bending.	03
	(b) Distinguish between wire drawing and tube drawing with sketches.	04
	(c) Write short note on Electron beam welding.	07
Q.5	(a) Explain the cutting operation for press working.	03

- (b) Enlist types of super finishing processes. Discuss the selection criteria for appropriate super finishing process. **04**
- (c) Enlist the various types of presses used in forging explain with neat sketch. **07**

OR

- Q.5**
- (a) Enlist the Plastic manufacturing processes. **03**
 - (b) State the advantages and disadvantages of Compression molding process. **04**
 - (c) Draw the various glass structure explain properties and application of glass manufacturing. **07**
