Seat No.:	Enrolment No.
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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV(New) EXAMINATION - SUMMER 2016

Subject Code:2141908 Date:08/0		06/2016	
Sub	ject	Name:Manufacturing Processes -II	
	•	:30 AM to 01:00 PM Total Ma	rks: 70
	uction		
	1.	Attempt all questions.	
		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		
	12	Honing Lanning	
	13 14		
Q.2	(a)	Importance of recrystallization temperature for mechanical working	03
Q.2	(a)	processes.	03
	(b)	Explain the importance of Manufacturing Processes in context of recent	04
	(6)	development.	04
	(c)	Differentiate between Hot and Cold working processes.	07
		OR	
	(c)	What are the different types of patterns? Describe any two with	07
		figure.	
Q.3		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	07
		figure.	
Ω 3	(a)	OR Sketch and label four positions of welding	03
Q.3	(a) (b)	Sketch and label four positions of welding. Enlist the types of flame for gas welding and describe anyone with	03 04
	(D)	neat sketch.	VŦ
	(c)	Classify the metal joining processes.	07
Q.4	(a)	Explain the effect of Strain Hardening.	03
Æ.,	(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
0.5		Evaluin the cutting operation for process working	03
Q.5	(a)	Explain the cutting operation for press working.	UJ

	(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
