Seat No.: _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV (NEW) EXAMINATION - WINTER 2017

Subject Code: 2141908 Date:29/11/2017

Subject Name: Manufacturing Processes -II

Time: 02:30 PM TO 05:00 PM Total Marks: 70

Instructions:

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

Q.1	(a)	Define : Ingot	Marks 03
Ų.I	(a)	Collapsibility	0.5
		Honing	
	(b)	•	04
	(c)	Define Manufacturing Process and Enlist Various Manufacturing	07
		Processes	
Q.2	(a)	mechanical working processes?	03
	(b)		04
	(c)	two in detail.	07
		OR	
	(c)	, , , , , , , , , , , , , , , , , , ,	07
Q.3	(a)	Explain: Significance of Core print	03
		Fullering	
	(b)	Calendaring What is the meaning of Gate in the mold of casting? Give the	04
	(0)	classification of it with figure.	VŦ
	(c)	Draw the various glass structure explain properties and application	07
	()	of glass manufacturing.	
		OR	
Q.3	(a)	What is Piercing, Notching and Nibbling in Metal shaping process?	03
	(b)	Enlist various ceramic structures and explain any one in detail.	04
	(c)	Explain Injection Molding Process with neat sketch.	07
Q.4	(a)	Why do we use welding symbols? Explain Basic symbol with figure.	03
	(b)		04
	(c)	Explain elastic and plastic deformation process in detail with neat	07
		sketch in metal shaping/forming processes.	
0.4	(-)	OR	0.2
Q.4	(a) (b)	Explain Blow holes, Misrun & Warpage in terms of castings. What is Composite material? Also classify briefly.	03 04
	(c)	Write a short note on forging defects.	0 4 07
	(0)	Title a short hote on forging defects.	07
Q.5	(a)	Explain Polyethylene, Polypropylene and Polyvinyl Chloride in brief.	03
	(b)	State advantages and limitations of explosive welding.	04

	(c)	Discuss with neat sketch TIG welding.	07
		OR	
Q.5	(a)	Explain in brief about Shovel, Strike-off bar & Trowel in molding	03
		of sand with figure.	
	(b)	Explain Strain Hardening in forming process.	04
	(c)	Explain Precision Investment Casting with Figure.	07
