Seat No.: _____ Enrolment No.____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-IV(NEW) - EXAMINATION - SUMMER 2019

Subject Code:2141908 Date:25/05/2019

Subject Name:	Manufacturing	Processes -II
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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) (b)	Describe the pattern colour code normally used in foundries. Explain why the understanding of manufacturing processes is essential for better products?	03 04
	(c)	Give the broad classifications of manufacturing processes.	07
Q.2	(a) (b)	List the main advantages of casting process. Give the brief write up on the following casting terms:	03 04
	(c)	Sprue, gate, runner, riser Name the pattern allowances which can be quantitatively specified. Write a brief note on each of them.	07
		OR	
	(c)	What metals are generally used for making patterns? Explain the reasons in brief for their selection.	07
Q.3	(a)	Briefly explain the application of chaplets.	03
	(b)	Explain the disadvantages of carbon dioxide moulding.	04
	(c)	Briefly enumerate the steps in sequence for producing casting from shell moulding.	07
		OR	
Q.3	(a)	Give the typical applications for adhesive bonding.	03
	(b)	What is meant by 'penetration'? Explain its relevance to welding.	04
	(c)	Describe the types of flames obtained in oxy-acetylene gas welding process giving its applications.	07
Q.4	(a)	How is an arc obtained in arc welding?	03
Q.T	(b)	What are the advantages of AC equipment over DC equipment in arc welding?	04
	(c)	What are differences between TIG and MIG welding processes? OR	07
Q.4	(a)	State the advantages of projection welding.	03
•	(b)	Write a brief note on flash welding.	04
	(c)	What are the defects that are generally found in welding? Describe their causes and remedies.	07
Q.5	(a)	What is the significance of recrystallisation temperature in metal working?	03
	(b)	What are the advantages of hot working over cold working of metals?	04
	(c)	Discuss the defects, causes and remedies of forging defects.	07
	()	OR	
Q.5	(a)	Explain various properties of plastic.	03
-	(b)	Give the advantages and disadvantages of composite.	04
	(c)	Draw the various glass structure explain properties and application of glass manufacturing	07
