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GUJARAT TECHNOLOGICAL UNIVERSITY

GUJAKAI IECHNOLOGICAL UNIVERSIIY BE - SEMESTER– IV (New) EXAMINATION – WINTER 2019			
Subject Code: 2141908 Date: 16/12/2019			19
Subject Name: Manufacturing Processes -II			
Time: 10:30 AM TO 01:00 PMTotal Marks: 70			
Instructions:			
	2.	Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
			MARKS
Q.1	(a) (b)	Define terms: (1) Pattern (2) Cope and (3) Drag List the Type of patterns and Explain any two with Sketch.	03 04
	(c)	Classification of manufacturing processes. Also describe the factors affecting the selection of manufacturing process for a product.	07
Q.2	(a)	Explain the functions of (1)Facing sand (2) Backing sand (3) System sand	03
	(b)		04
	(c) (c)	State the types of furnaces used in foundries and discuss in brief the working of cupola furnace.	07
		OR	
	(c)	List various types of core. Explain Three cores with suitable sketch.	07
Q.3	(a)	Classify the metal joining processes.	03
	(b) (c)	List of welding joints and explain any two in brief. Describe the types of flame obtained in oxy-acetylene gas welding with	04 07
	(C)	neat sketch.	07
		OR	
Q.3	(a)	List welding symbols? Explain two Basic symbols with figure.	03
	(\mathbf{b})	Explain the principle of Arc welding.	04 07
	(c)	Explain the friction welding process. States advantages, limitation and application.	
Q.4	(a)	State the material properties which are important in metal forming.	03
	(\mathbf{b})	Explain the terms: Ingot, slab, bloom and billet. Discuss the defects, causes and remedies of forging defects.	04 07
	(c)	OR	07
Q.4	(a)	State the advantages and limitations of forging process.	03
	(b)	Describe the piercing and blanking processes.	04
	(c)	Explain forward and backward extrusion process with suitable sketch.	07
Q.5	(a)	List step of powder processing method for manufacturing of ceramic matrix composites.	03
	(b)	Draw the various glass structures and list its properties.	04
	(c)	Explain Transfer Moulding process and stating its advantages, limitation and application.	07
07	(-)	OR Classification of plastics materials and its applications	0.2
Q.5	(a) (b)	Classification of plastics materials and its applications. List various ceramic structures and explain any one in details.	03 04
	(D) (C)	Classification of composites and explain any two Composites.	04 07
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