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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER- VI (Old) EXAMINATION - WINTER 2019

Subject Code: 162503			Date: 11/12/2019	
Subject Name: Metal Forming Processes Time: 02:30 PM TO 05:00 PM Instructions: 1. Attempt all questions. 2. Make suitable assumptions wherever necessary. 3. Figures to the right indicate full marks.				70
Q.1	(a) (b)	Explain the Types of fractures and its influence in service life Explain the metal forming processes. Write its advantages, dapplications.	-	07 07
Q.2	(a) (b)	With the help of schematic diagram explain slip and twinning cause plastic deformations in metals and alloys. Explain Fatigue failure curves and method to improve fatigue.		07
		OR		
	(b)	Explain the Stress strain relations in elastic and plastic deform	mation.	07
Q.3	(a) (b)	Explain Tube production by rolling processes. Explain the Hot and Cold Working Processes and Its Effect of Properties.	on Mechanical	07 07
		OR		
Q.3	(a) (b)	Classify the Rolling mills and Explain any two. How calculate the Rolling Load? Explain		07 07
Q.4	(a) (b)	lain the Defects and Properties of Forged Products. lain the Force Analysis in forging process. OR		0′2 0′2
Q.4	(a) (b)	Differentiate forward extrusion and backward extrusion with neat sketch. Explain the principal of metal spinning with neat sketch.		07 07
Q.5	(a) (b)			07 07
Q.5	(a) (b)	Explain the Hydrostatic Extrusion. Write its merits and deme		0′; 0′
