Q.P. Code :11087

				[Time: Three Hours]	[Marks:80]
		N.B:	1.	Question.No.1 is compulsory.	
			2.		7,40,00,00
			3.		2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
			4.	Figure at right side indicate marks	
Q.1	Attempt any four question				20
		a) Construct the TTT diagram for carbon steels.			
		b) Define fatigue. Explain its mechanism in detail.			
	c)				
	ď)			t properties of elastomers.	20,
	e)			term sub- angle grain boundary.	5
Q.2	a)	, we will be a second of the s			10
	b)	What do	you	mean by Rheological fluids? Explain their types in detail.	10
Q.3	a)	2, 22, 25, 45, 20, 45, 47, 67, 47, 47, 47, 47, 47, 47, 47, 47, 47, 4			05
	p)			between ductile and brittle fracture.	05
	c)	Describe	com	posite types based on the matrix materials.	10
Q.4	a)				10
	b)	Draw Iro	n –Ir	on carbide diagram and exp <mark>lain microstr</mark> uctural phases in detail.	10
Q.5	a)	Categorize cast irons completely. Describe them by labeled drawing of their microstructures.			10
	b)	Explain N	⁄letal	llic and Ceramic Magnetic materials in detail with its applications.	10
Q6	Write a short note any four				20
	a)				
		CCT diag	~ / . Or /		
	c)			ological fluids	
	d)	Stacking			
	(e)	Cemente	d cai	rbides	
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