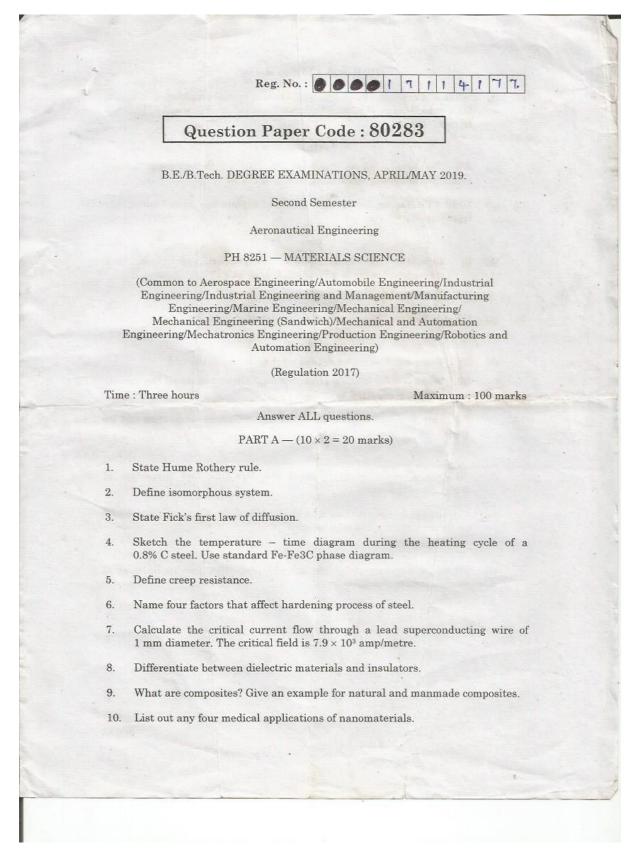
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		+ 1	PART B — (5 × 16 = 80 marks)	
			What is a eutectic phase diagram? Draw a typical equilibrium diagram	
			for a eutectic type of system with limited solid solubility and explain its	
			important.	
			Or	
		(b)	What is binary phase diagram? Explain in detail about binary	
		(~)	isomorphous system and the region present in it.	
	19	(a)	Draw TTT diagram for eutectoid steel and explain biantic and martenstic	
	14.	(a)	transformation.	
THE PARTY			Or	
		(p)	(i) Calculate the amounts and compositions of phases and	
		Some	microconstituents in a Fe-0.60% C alloy at 726°C.	
		144	(ii) What are the general properties of tool steels?	
	13.	(a)	What is fracture? Discuss the different types of fracture.	
		02.00	Or	
		(b)	(i) Discuss the strain hardening mechanism in detail.	
			(ii) What is solid solution strengthening? Discuss in detail the various	
			variables affecting it.	
	14.	(a)		
			applications.	
			Or	
		(b)	What is ferroelectricity? Explain the structure and properties of	
			ferroelectric materials.	
	15	(0)	Classify the composites based on the matrix phase Compare them based	
	10.	(a)	Classify the composites based on the matrix phase. Compare them based on their properties and applications.	
			Or	
		(b)	What are nanomaterials? Explain the properties and applications of	
			nanomaterials.	1
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