			1 I J				
	l Nu	umber of Pages					B.1
210		210	6 th Semester I	210 Back Examina	210 tion 2017-18	210 P	
				UFACTURING		i	
			BRANC	H : MECH, PL	ASTIC		
			Т	ime : 3 Hours			
			N	lax Marks : 70			
210		210		.CODE : C221	210	210	
2.0		Answer Questic					
		The fig	gures in the rig	ght hand marg	gin indicate m	arks.	
Q1.		Answer the follo	• •				(2
	a)	Write the function	•		15.4		
	b) c)	Name the abrasiv What is the funct					
210	d)	List the limitation			210	210	
	e)	What is the funct		•	?		
	f)	How laser used t	o machine the m	naterial?			
	g)	Why electrolyte is					
	h)	Differentiate PVD		ning			
	i) j)	Explain the proce Name the equips			r?		
210	3/				210	210	
Q2.	a)	Explain with neat	•			1.	
	b)	Describe principle	e and the equipr	nent used in the	WJM.		
Q3.	a)	Calculate the m	•				
		electrochemically solution having s					
210		and current is 50					
		density as 100%				inium atomic	
	b)	weight is taken as Write the principle		-	.07X10 g/111.		
	,			· · ·····			
Q4.		Discuss the effect		• ·		terial removal	
		and surface finish (a) Amplitude a			-		
210		(b) Abrasive grit		210	210	210	
		(c) Static load					
		(d) Shape of too(e) Work materi					
			a				
		Explain the prir	nciple of metal	removal in E			
5.		generators used					

210	210		210	210	210	210	210	210						
210		surface b) A laser diamete efficien propert Melting	Describe with neat diagram the principle of operation, material removal and surface finish in electrochemical grinding process. A laser beam with power intensity of $2x10^5$ w/mm ² is used to drill a 0.2mm diameter through hole in a tungsten sheet of 0.4 mm thickness. If the efficiency of the operation is only 10% estimate the time required. The thermal properties of tungsten are: Melting temp= 3400° c, thermal conductivity = 2.15 W/cm ⁻⁰ C, volume specific heat = 2.71 J/ cm ³ - ⁰ C.											
		b) Describ	s in detail the mic be the applicatio e grinding wheel.				(5) per (5)							
210		a) Wire El b) Aching c) Concur	short notes on an DM of semiconductor rent engineering cal Blanking.	-	210	210	210 (5 x 2)	210						
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