	D	210 210 Registration No :	210	210	210	210				
	I	egistration no .								
Tota	al N	umber of Pages:02					Tech			
		5 th Sem	ester Regular / Ba	ick Examina	ation 2018-19	PME	51101			
			ACHINING SCIENC	E & TECHN		210				
			BRANCH Time : 3							
			Max Mar							
			Q.CODE							
An	ISWE	er Question No.1 (Par	t-1) which is comp from P		EIGHT from F	Part-II and any T	wo			
		The figu	res in the right ha		ndicate marks					
		210 210	210	210	210	210				
Q1		Short Answer Type Q	Par Answer A			(2	x 10			
G	a)	What is the use of chip	=	II-10 <i>)</i>		(2	× 10			
	b)	Write the factors affecti		chining?						
	c)									
	d)	What is the difference b	etween a 'face plate	and 'drive pl	ate'?	010				
	e)	² Calculate the set over mm long.	required to machine	a taper of 60)mm/m on the w	orkpiece 400				
	f)	What is the difference b	etween shaper and	planer?						
	g)	Explainthe term 'maching	nability'.							
	h)	Define grinding ratio?								
	i)	What is meant by 'grad		• •	eel?					
	j)	What type of work is mo	ost suitable for LBM?	210	210	210				
Q2		Focused-Short Answe	Part		v Fight out of T	welve) (f	6 x 8			
QL	a)	Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve) Sketch a single point cutting tool under ORS system. Define various tool angles and								
	/	discuss their importanc								
	b)	Write a short note on cu	utting fluids.							
	C)	Write any five factors th	210	210	210	210				
	d)	Describe the method o and tools used. What is	its specialty?							
	-	e) What is hydraulic shaper? what are its advantages over mechanical shaper?f) A rod 150 mm long and having diameter 15 mm is reduced to 14 mm diameter in one								
	f)	A rod 150 mm long and pass of turning. Find speed is 400 rpm and f	the material remova							
	g)	Discuss the working pri		ynamometer	with sketch.					
	h)	² Calculate the time to s m/min and return to cut end 70 mm.				, I				
	i)	Differentiate between u method and why?	p milling and down r	nilling. Which	n one is most co	mmonly used				
	j)	What are the advantage	e and disadvantages	of centerless	grinding?					
		VAUs at any the structure		2						
	k)	What are the functions	of Electrolyte in ECIV	<u>?</u>						

210		210	210	210	210	210	210	210
	Q3	What are the	r Type Questior situations where a is recorded rela	diamonds are us	Two out of Fou sed as cutting too	ır) ols?	(16)	
210		2chip thickness calculate a) com	50 N; cutting forces ratio=0.26; tool pression and she fficient of friction	rake angle=10 ⁰ ear force and	210 Id tool face	210	210	210
	Q4	What are the method with e		of indexing met	thod? Describe	the differential in	ndexing (16)	
210	Q5	² Explain the pr	inciples of EDM.	Describe the dif	ferent parts of El	DM with neat ske	etch. (16)	210
	Q6	Derive the ex maximum pro		mum cutting spe	eed for minimum	cost of product	ion and (16)	
210		210	210	210	210	210	210	210
210		210	210	210	210	210	210	210
210		210	210	210	210	210	210	210
210		210	210	210	210	210	210	210
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210		210	210	210	210	210	210	210