MEL781 - MACHINING PROCESSES & ANALYSIS (I Semester 2006-07)

<u>Major</u>

Room NO: III 342			1-12	1-12-2006	
		er all the questio		catast sutting?	(1)
1	• •		nefits of controlled o	_	
	(b)	_	l cutting operation, t take angle	$= 20^0$	nas been obtained.
			Chip thickness ratio	- •	
			Cutting Force	= 1600 N	
			hrust Force	= 470 N	
			Incut chip thickness		
			•		ane angle if the contact is
		reduced to 50%.		5 D	(4)
2.	. (a)		angle. What is the	significance of ch	• •
	(b)	•	veen normal rake an	_	•
	` '	cutting.			(4)
3.		For the orthogor	nal eutting of a parti-	cular work materi	al, it is found that the length
		of the chip-tool contact is always equal to the chip thickness and that the me			
		shear stress at the chip-tool interface is equal to the mean shear stress on the sh			
		•	-	-	an coefficient of friction on
			-		it is equal to unity when the
			e is equal to the rake		(5)
	(a)		bility? Explain the n	nachinability conc	ept with various criteria of
	41	assessment.			(3)
	(6)		g's dimensional and	alysis for tempera	ture measurement in metal
	(0)	cutting.	matara which influer	as meterial remo	(2)
٥.	. (a)	Machining and sl		ice material femo	val rate in Ultrasonic (2)
	(b)		f stand-off-distance	and abrasive flow	, -
	(0)		Abrasive Jet Machini		(2)
	(c)		steps of photochemi	_	(1)
6.	, .	-	s on the following:	car macmining.	(1)
υ.	(a)	High speed mack	•		(2)
	(b)	Ultra Precision	_		(1)
	(c)	Hard Turning			(2)
	(-)				` '