Reg.	No:														
	SIDDI	HARTI	H INS	TITU	те о	F EN	GINE	ERIN	G & '	ГЕСЕ	INOL	O	GY:: PUT	TUR	
								OMOL							
	В.	Tech I	II Yea	r I Se	emes					xami	natio	ns	Feb-202	1	
					<b></b>			ETOC							
<b></b>	2.1				(M	echai	nical E	Engine	eering	1)					
Time: 3 hours Max. Marks: 6															: 60
				(	(Answ	er all	Five I	Jnits 5	x 12	=60 N	Marks)	s)			
								JNIT-							
1	_	Explain basic elements in metal cutting with a neat sketch.													6M 6M
	b Wh	What are the conditions for producing continuous chips?													
2	a Dur	ing orth	1000ns	al cutti	ina a l	or of	00mm	OR diam	otor is	reduc	ed to	۷7	6mm If th	a maan	6M
2	a During orthogonal cutting a bar of 90mm diameter is reduced to 87.6mm. If the mean length of the cut is 88.2mm and rake angle is 15°, calculate: (i) Cutting ratio (ii) Shear angle.														
	_	cuss ab	out ma	chinir	ng of r	netals									<b>6M</b>
							U	NIT-I	I						
3	a Exp	lain cu	tting s <sub>l</sub>	peed,	feed, a	and de	pth of	cut.							<b>8M</b>
	<b>b</b> Stat	e the ac	dvanta	ges an	d disa	idvant	ages o		nical f	luids.					<b>4M</b>
4	- Dan	:	4	C	.1		C	OR	1						77 N
4		ive an e at are th									19				7M
	D WIII	at are ti	ie chai	acterr	Sucs	)1 all 10	-	NIT-I		iaieria	.1 (				5M
. 5	a Sho	a Show the lathe set up for thread cutting operation and explain thread cutting.													6M
		Explain the advantages and disadvantages of a turret lathe.												6M	
				δ				OR							
6		at are thable dia		erent t	ypes o	of tape	er turn	ing me	ethods	? Disc	cuss ar	ny	one metho	d with	5M
	<b>b</b> Def	ine the	workii	ng prii	nciple	of lat	he. Ho	w can	you s	pecify	a latl	he	?		<b>7M</b>
							U.	NIT-I	$\mathbf{V}$						
7		the bloc ions per			f a sha	aper n	nachin	e and	explai	n brie	fly its	s va	rious parts	and	12M
								OR							
8		at are th													6M
	b Hov	v millir	ig mac	hines	are br	oadly	Process.								6M
•	**						CONTROL OF THE PERSON NAMED IN	NIT-	V						
9		w are br		_					٠,	,					6M
	<b>b</b> Des	cribe b	rieny	Princ	ipies (	oi jig a	and Hy		esign	•					6 <b>M</b>
10					eel'? '	What a	are the	OR grind	ing w	heel p	arame	etei	rs that influ	ence the	6M
	_	ding pe ine and			terms	i) Jig	and ii	) Fixtu	ıre wit	th its u	ises.				6M

K10

Q.P. Code: 16ME316

\*\*\* END \*\*\*