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									Е ТОС						
(Mechanical Engineering) Time: 3 hours Max. Marks: 60															
Time	e: 3	hours												Max.	Marks: 60
					(Ans	swer a	ll Five	the state of the s	s 5 x 1	2 = 6	0 Mar	ks)			
1	UNIT-I a What are the basic objectives of the economical and efficient machining practice?														6 M
	b How can you classify cutting tools?											practice.	6M		
					•	C		OI	R						
2	b Define the single point cutting tool elements.													6M	
														6M	
3	UNIT-II a List out the types of cutting tool material and explain (i) Coronite (ii) Ucon.														8M
5	b Give the broad classification of cutting fluids and explain (f) Colome (f) Ocon.													4M	
	OR														
4		Explain								r.					7 M
b Explain the stress and strain acting on a chip.														5M	
5	5 a List the Turret lathe operations and with neat sketch explain any one operation.														
•															
	with neat sketches.														-
OR6 a What is meant by tool layout of a turret lathe?5M															
6		What i Explain								ahaa					5M 7M
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7	a														ling 6M
		machir	nes?				-								,
	b Discuss briefly, with a neat sketch, a horizontal boring machine													6M	
8	я	What i	s a sha	aner?	What i	s the s	vorkir	OF or prin		and si	pecific	ation	of a sh	aner?	6M
Ū	8 a What is a shaper? What is the working principle and specification of a shb Explain briefly plain indexing and differential indexing with suitable example.											-	6M		
		-				C		UNIT			_			•	
9	a	What a	re the	advar	ntages,	limita	ations	and a	pplicat	tions o	of broa	aching	<u>;</u> ?		6M
b Write short notes on: i) Silicon carbide ii) Aluminium oxide iii) Abrasive size.													6M		
10	ด	How is	"orin	dina"	classi	fied?		OF	K						6M
10		What is	-	•			plain	princi	ipal bo	onds.					6M
						17) 17)		1	1	1					

*** END ***