CBCS SCHEME

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E LAN		Fourth Semester B.E. Degree Examination, Dec.2023/Jan.202	24
Control of the State of the Sta		Manufacturing Process – II	
Tin	20: 3		arks:100
1111		ote: Answer any FIVE full questions, choosing ONE full question from each mod	
		Module-1	
1	a.	Explain with a neat sketch the mechanism of chip formation.	(10 Marks)
	b.	Explain the factors affecting tool life in detail.	(10 Marks)
		OD	
2		Write short notes on types of cutting fluids.	(10 Marks)
2	a. b.	With a neat sketch explain the measurement of tool tip temperature.	(10 Marks)
	0.		
		Module-2	т и
3	a.	Discuss the constructional features of Turret and Capstan Lathe. Sketch the Capst	(10 Marks)
	b.	Differentiate between Capstan and Turret Lathe.	(10 Marks)
4.5		OR	(10 Marks)
4	a. b.	Sketch the construction and working of shaping machine. Discuss the various operations on lathe.	(10 Marks)
	υ.	Discuss are various operations on tames.	
		Module-3	
5	a.	Explain the milling cutter nomenclature. With a neat sketch.	(10 Marks)
	b.	What is indexing in milling operation? Clearly discuss about compound a indexing.	(10 Marks)
		mdexing.	
		OR	110014
6	a.	Write a note on the following: i) Abrasives ii) Bonding process.	(10 Marks) (10 Marks)
	b.	With a neat sketch, explain the centre less grinding machine.	(10 Marks)
		Module-4	
7	a.	Describe the nomenclature of a drill bit with labeled diagram.	(10 Marks)
	b.	Explain the constructional features of gang drilling machine with suitable figure.	(10 Marks)
		OR	
8	a.	Explain the principle of broaching with relevant figure.	(10 Marks)
0	b.	Explain the arrangement set up of lapping operation and also honing operation.	(10 Marks)
		Module-5 Will a state of Plasma Arch Machining (PA	AM) and list
9	a.	With a neat sketch explain the working principle of Plasma Arch Machining (PA its applications.	(10 Marks)
	b.	Write short notes on principle of Electron Beam Marching (EBM).	(10 Marks)
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	. 1	OR	(10 Marks)
10	a.	Explain the working principle of Abrasive Jet Machining and list its advantages.	at sketch.

Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

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(10 Marks)