

18AU45

Fourth Semester B.E. Degree Examination, June/July 2024 Manufacturing Process - II

Time: 3 hrs.	Max. Marks: 100

	N	lote: Answer any FIVE full questions, choosing ONE full question from each module						
		Maddle 1						
		Module-1						
1	a.		Marks)					
	b. Draw a merchant is circle diagram and write the expression of different forces							
		OR						
2	a.		Marks)					
	b.	What are the factors affecting the tool life. Explain briefly. (10	Marks)					
		Module-2						
3	a.	· · · · · · · · · · · · · · · · · · ·	Marks)					
	b.	Explain operations performed on lathe with neat diagram. (10	Marks)					
		OR						
4	a.		Marks)					
	b.	8						
		has a cutting stroke to return stroke ratio of 3:2. Determine the cutting speed in						
			Marks)					
	C.	Explain constructional features of double housing planer. (10	Marks)					
-		Module-3						
5	a.		Marks)					
	b.	What are the operations performed on a milling machine. Explain any four operation						
		· · · · · · · · · · · · · · · · · · ·	Marks)					
	C.	Define Indexing. Explain different types of Indexing. (06	Marks)					
		OP						

OR

6	a.	Explain with a ne	eat diagram,	constructional features of cent	er-less cylindrical and surface	e
		grinding.			(10 Marks)
	h	What factors are a	amaidan fan	releasion of aminding rulegal From	lain (0(3# 1	`

What factors are consider for selection of grinding wheel. Explain.

(06 Marks)

c. Explain with a neat sketch, Dressing and truing of grinding.

(04 Marks)

7 Define drilling. Give complete classification of drilling machine. (10 Marks) Explain with a neat sketch, working principle of radial drilling machine. (10 Marks)

OR

What are the advantages and disadvantages and application of broaching machine?

(10 Marks)

Explain with a neat sketch lapping and honing process.

(10 Marks)

Module-5

- 9 a. Explain Ultrasonic machining. (10 Marks)
 - b. Explain principle, equipment, advantages, and disadvantages of Abrasive jet machining.
 (10 Marks)

OR

- 10 a. Explain Electrochemical machining with neat diagram along with advantages and limitations. (10 Marks)
 - b. Explain plasma are machining with neat diagram along with advantages and disadvantages. (10 Marks)
