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New Tall	

18ME35A/18MEA305

Third Semester B.E. Degree Examination, Feb./Mar. 2022 **Metal Cutting and Forming**

BA Time: 3 hrs.

Max. Marks: 100

	Note: Answer any FIVE full questions, choosing ONE full question from each module.					
Module-1						
1	a.	What are the difference between orthogonal cutting and oblique cutting?	(06 Marks)			
_	b.					
	c.	Draw Mechant's circle diagram and state the assumptions made in establi	shing the			
		relationship among the various forces.	(06 Marks)			
		OR				
2	a.	A A	(06 Marks)			
_		Draw the tool layout for producing a hexagonal headed bolt or a caster lath	e from a			
		hexagonal bar stock. Assume the dimensions.	(08 Marks)			
	c.		(06 Marks)			
Module-2						
3	a.		(10 Marks)			
3	а. b.	Define Drilling. With a neat sketch explain a radial drilling machine.	(10 Marks)			
		OR OR	(10 M l)			
4	a.	Sheren and supram are remaining from the state of the sta	(10 Marks) (10 Marks)			
	b. With a neat sketch, explain the centerless grinding machine. (10 Marks)					
Module-3						
5	a.	Donne touc trout Enplant of the trout	(06 Marks)			
	b.					
	c.	c. Define tool life and explain the factors which affect the tool of life. (08 Marks)				
OR						
6	a.	Which are the different forms of wear on the cutting edge of a tool? With suital				
		Unpression of the second of th	(08 Marks)			
	b.	Displant me enough of comments of the comments	(06 Marks)			
	c.	Explain the critical cutting parameters which affect the tool life.	(06 Marks)			
		Module-4				
7	a.		(10 Marks)			
b. With a neat sketch explain the classification of metal working process on the basis of force						
applied. (10 Marks)						
OR						

- With a neat sketch, explain different types of rolling mill arrangement. (10 Marks) (10 Marks)
 - With a neat sketch, explain the wire drawing process.

Module-5

- How sheet metal operations are classified? Explain with a neat sketch. (10 Marks) 9
 - What do you mean by dies? Write a note on: i) Progressive dies ii) Combination dies. b. (10 Marks)

- With a neat sketch, explain V-bending and edge bending operations. (10 Marks) 10
 - With a neat sketch, explain the parts of open back inclinable press. (10 Marks)

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