Unit II

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Dell No		Total Pages: 02
Ron No.		
	BT-5/D-18	35129
]	PRODUCTION TECHN	NOLOGY-II
	ME-311N	
Time : Th	nree Hours]	[Maximum Marks: 75
Note: A	Attempt Five questions in all	, selecting at least one
	uestion from each Unit.	
7		
	Unit I	transform rotary motion otion in various machine tages and limitations of 8 provided with stepless
1. (a)	Name the mechanism which	transform rotary motion
	into translator (or linear) mo	otion in various machine
	tools. Also state the advant	tages and limitations of
	those mechanisms.	3
(b)	How are machine tools	provided with stepless
, ,	drives?	7
2. Desi	ign a speed gear box for a dr	illing machine requiring
six	spindle speeds with common	ratio $\emptyset = 1.25 \ (2^{1/3}).$
The	design of the gear box shou	eld include:
(a)	Drawing the gear diagrams	
(b)	Ray diagram	
(c)	Number of teeth of all the	gears. 15

3.	Write down the short notes on the following:			
	(a) Discuss the various thread rolling machine.	8		
	(b) Straight flutes, helical flutes, Left handled flu	tes,		
	Right handled flutes.	7		
4.	Write the help of the diagram, explain the principle of gear cutting with the help of a rotary gear shaper			
	cutter.	10		
	(b) What is Rack planning process? Explain.	5		
Unit III				
5.	. Explain the principle of Ultrasonic machining with th			
	help of neat diagram.			
6.	Write short notes on the following:			
	(a) Laser Beam Machining	7		
	(b) Self excited vibration (chatter).	8		
Unit IV				
7.	Write short notes on the following:			
	(a) The principle of Six point location	7		
	(b) Diamond pin locators.	8		
8.	 (a) Explain the construction and use of Temp jig. 	late 10		
	(b) Briefly describe Broading Fixture.	5		
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