

Co	A	Δ	•	14	57	1	F	12	T
しし	u		•	T,	יוכ	AT.	Ľ	73	1

	-			 and the second	this color of the	- Annata - Anna - A	
Register	1	4		. 4			
Number							

IV Semester Diploma Examination, Oct./Nov.-2019

MACHINE TOOL TECHNOLOGY

Time: 3 Hours]	[Max. Marks : 100
Note: (i) Answer any six questions from Part – A. (ii) Answer any seven questions from Part – B.	
PART - A	
1. List the factors affecting tool life.	5
2. Name the various operations performed in Lathe.	5
3. Differentiate Capstan and Turret Lathe.	5
4. Mention the specification of a Shaper.	5
5. List the various operations performed in planer.	5
6. Differentiate between Jigs and Fixtures.	5
7. Classify Milling Cutters.	5
8. Explain lapping process.	5
9. Describe briefly the principle of Laser Beam Machining. (LB	M) 5
PART – B	
10. (a) Explain briefly the different types of chips.	5
(b) State the difference between orthogonal and oblique cu	tting. 5
1 of 2	[Turn over

		- 0.2	1
11.	(a)	Explain 3 Jaw chuck with a neat sketch.	5
	(b)	Explain thread cutting operation with sketch in a lathe.	
12.	Ske	ch and explain the working of multiple spindle automatic lathe.	10
13.	Sket	ch and explain the working of Slotter.	10
14.	(a)	Differentiate between Shaper & Planer.	6
	(b)	List the operations performed on a shaper.	4
15.	Wha	at is indexing? Explain simple and compound indexing.	10
16.	Exp	ain radial drilling machine with a sketch.	10
17.	Sket	ch and explain the centreless Grinding.	10
18.	Expl	ain with a neat sketch the principle of working of Abrasive Jet Machinin	g (AJM) 10
19.	(a)	Differentiate up milling and down milling operations with a sketch.	. 6
	(b)	State any four (4) Milling Operations.	4