Namu: Aanthal Thaman , Rall no: 16010120110 Botch: B2 4 /5/2021 Aanchel. Assignment No. 4 Machine shop co3 - understand the use of lathe machine for shaking objects by removal of metal. ! List with neat sketches the various operations that can be beyormed on centre lathe machine. A) is facing - chuck Revolving workpeice - Tool common machine process that involves the use machine to remove material from the end shoulder of a workpeice. workbuil notation ii) Turning D — feed Direction Turning Turning is the nemoval of metal from the outer diameter of retating cylendrical workpeice. Turning is used to treduce the diameter of the workfeice, usually to a specified dimension, and to produce a smooth finish on the metal workbeice Rotation (iii) Taper turning -D2 Turning Tool -- Feld Direction

	Roll No: 16010120110 Batch: 82 Aanchel. Aanchel.				
	when the diameter of a peice changes uniformly from one u				
	the other, the peice is said to be tapered. Taper turning as a				
	machine operation is the gradual reduction in diameter from				
	part of the cylinderical workpiece to other.				
	post of the agreement morphice to be tet.				
iiv	- Kannuling -				
(A)	Knurling - Chuck Chataling would				
!	Rotoding while				
•—-					
					
	- Vanualises				
	→ Knurling Tool				
	Knowling is a manufacturing process typically conducted on a				
	lathe, whereby patterns of straight, angled or crossed lines is				
	and the second state of				
	on the material Rotation w				
(Y)	Greening -				
	Truning				
	Twining -> 1 feed Direction				
	Greating is a turning operation that creates a narrow cut, a				
	"ographe" in the workpeice. The size of the cut depends on the				
	width of the cutting tool. Multiple tool passes are necessary for wid				
	Rotation				
. '.	Pitch				
(A)	Threading - () To MOTO				
	4 Cold Dittertion				
-	Turning Tool - [- Feld Direction				
	IMMIN 1001-> [_]				
	Threading is a turning operation in which a tool moves are				

	Rolling: 16010120110	<u> </u>			
	Batch: B2	/ SAFE / 4 /5 / 2021			
	Roll No: 16010120110. Botch: B2 Aanchal.				
riir)	Drilling -	Truist Drill			
	0	WX (0)			
		Rotation - Fred Direction			
	Drilling obtration remo	us the material from the inside of a			
		drilling is a note with a diameter			
	equal to the size of the	utilized drive bit. Drill bits are usually			
	positioned either on a tai	lstock or a lathe tool holder.			
	+	Tool Cotation			
	Boring -	Tool Rotation			
	4 4	/			
	<u> </u>	1 TBoring Tool ← Fud Direction.			
	In Boring operation, a tool enters the workpeice arcially and				
	number material along the internal surface to either create				
•	different maps on to ent				
nei (ca	Exclain in bhill what	is Lower Jam			
3-) (-)	Explain in brill what				
A) •	A power saw is a bouto	ble machine which comprises sturdy			
	blades, chains, wire, set of teeth, etc. It is boxically used for the				
	work pice in large cuts	. It can cut wood, plastic, metals, concrete			
		titles and brides. It can make aunilinear			
		we both versatile and specialized power sams			
	U	come with the power saw are:			
-3	Rotativa blades	·			
->	Reciberationa blades				
	circulating blades.				
	· The different types of pe	wer saws are:			
	cincular saw				
	Jig saw				
	Reciprocating saw				
	> table saw				
	Mitre sow.				

Name: Asnuhal Thoman

Name: Aanchal Thaman

ROLL NO: 16010120110

Batch: 82 Aanchal. FACE No. 4

EATE 4 , 5 /2021

A)	İ	Shaper Machine	Miking Machine		
	11.	lighter, cheaper and smaller.	reavier, earger and costlier.		
	1.2.	low accuracy	righ accuracy of upto 0.02 mm		
		Power consumption is low.	Power consumption is high.		
	<u>. 4.</u>	Intended for small jobs	Intended for large jobs		
	5.	Requires les flore space.	Requires large floor space		
		work settings require less skills	work settings require more		
		and time.	skills and time.		
	<u> </u>	The metal is removed at a slaw	The metal is removed at a justice		
<u> </u>		mati.	note as the cutter has many		
			witting edges and notates at night		
			spud.		
	ზ.	any one cutter can be mounted.	More than one cutter can be		
-	į	U	mounted at a time.		
84)	Explain in breif the difference between single point cutting and mutti point cutting tool.				
		single point cutting tool	Mutti point cutting tool		
	1	It only contains one main cutting			
	+-	edge in the cutter body	hundreds) culting edges in cutter bog		
	<u> </u>	only one main cutting edge remain	inch wan one curry rages		
	+	continuously in contact with workpein			
100	_	Chip wad per tooth is usually high.	l .		
	4.7		way and facturation of mutte		
	4.7	Design and fabrication of single point			
	4.		point outling tools are difficult. Higher feed nate and MER product		

	Name: Aanchal Thoman
	ROUND: 160101 20110
	Batch: 82
	Aanchal. [LATE 4/5/2021]
8,5)	list down the various measuring instruments used in a machine
	shop.
(A	The various metrology tools used in a machine shop are:
	Surface Plate:
	It is a flat surface used as a reprence point for vertical measurements.
_	Go No-Go Gage:
	It measures parts to ensure that they are within their perified tolerances
	(alipers measure by allowing two opposing tips to rest at the beginning
	and end of a distance being measured.
-	Micrometer:
	It was a calibrated screw, connected to a scale that moves as the
	screw is turned docknise or counter docknise.
→	Air Gage:
	It was pressurized air to measure the dimensions of an object.
	Coordinate measuring machine (CMM)
→	
	0
	/ <u> </u>