Name: Aanchal Thaman ROUND: 160101 20110 Batch: B2 6 5 2021 Aanchal. Assignment No. 5 Fitting shop COI - Build an object using fitting trade as per given specifications _81)__ what do you understand by Bench work and fitting ? Bench work refers to the production of components by hand on the bench. It includes various cutting process that machinists complete by hand nother than on a machine when creating part features that require less power and force. Fitting deals with the assembly of moting parts, through removal of metal, to obtain the required fit. It includes laying out various cutting operations, filing, threading, bunding etc. 92) Name and explain various types of files. How one files classified? A file is used to cut, trim or finish a job of metal or wood, in order to give them a shape according to our needs such as making the job round, square on angular. Fire is made from high carbon tool. Files can be classified on the basis of their length, shape, grades, cut (touth shape) The different types of file are: in bland file -It is used for general filing of metals such as still. They are nectangular in section. (i) Half round file -It is used for filing curved surfaces, especially used for bling internal server (ii) Three square file -It is triangular in section and very weful when filing 'tight' corners angles. The sharp edges allow the file to fit into corners.

Ray No: 16010120110 Batch: B2 DATE / 6/5/2021 Aandral. (iv) knife tile -These are very weful during filing where there is very little space It is very thin and can fit into small gaps. (1) square ble -They are very thin and fit into corners well. They are used to file state in metal on for filing where there is little space. Vi) Round file -This type of file has a nound section. It is used for nubbing or finishing Ry whole of small diameter 93) with neat sketch emplain hackson, what precautions should we take while using hackson? Tubular frame with holes for length adjustment A) -> Mandle Relaining pins fixed blade Adjustable blade meldur holder Hack som A hackson is a fine tentured saw, originally and mainly made for cutting metal. Most nacksand are hand sams with a c-shaped walking frame that holds a Hade under tension. Such hacksans have pind for attaching a narrow disposable Hade. The frames may also be adjustable to accommodate blades of different sizes. The precautions that should be taken while using a hacks and are: · Wear safety glasses or goggles, or a face sheld. · beliet a sam of proper snape and size for stock being used and with the number of teeth per inch (TPI) in order to get the desired finish. · Avold butting too much pressure on the blade, especially if its truisted at all - Always weune the blade property before any joband use even, steady strate · Wife the saw clean after every use.

Name: Ranchal Thaman

Name: Ranchal Thaman ROUNO: 16010120110 Botch: B2 DATE / 6 5 2021 Andral. 94) Describe drilling and tapping How are taps selected while tapping? 1) . Drilling refers to creating a smooth hole in a material with a drill and motor. Tapping is the action that creates a thread into the side of the hole. · Drived hales are characterised by their sharp edge. Tapping can be done on the lathe by power feed on by hands. · When choosing a tap, the chart is first referred to get the tap size. Process of trap selection is: 1. The material of the companent 2. Type of hole is considered 3. Type of took required to met the requirement of application. 4. Batch size on the tab selection 5. Threading depth. 95) For the given fitting job drawing, write the process plan Oferations - Filing, Right Angle Making and sawing Practice.

Accuracy: ±0.1 mm

Scale: N.T.S

Raw material size: 50×50 mm (1 No.)

Name: Aanchal Thoman

ROU NO: 160101 20110

Batch: 82 Aanchal.

A) Braces sheet				
Optration No.	Operation Description	Job Molding Device	_ Cutting Marking _ Tool used	_ Measuring
1.	Cutting the Flat of size 50x5 in 50mm length	Power Sant Machine	USS Blade (8TPI)	sted Rule
2.	Inspection of pure for size			steed Rule
3.	Burrs removing	Bench Vise	Rough Flat File	
4.	One side filing as base side. Straightness and flatness	Bench vise	Rough Flat File smooth Flat File	Steel Rule
5.	Adjancent side Filing. Right Angle Making	Bunch Vise	Rough Flat file smooth Flat file	Steel Rule Try square
6.	Marking for Job Size	surface Plate, v'Block	Chalk	Might Gange
1.	Filing & Right Angle making other two sides	Bench Vise	Rough Flot File Smooth Flat file	Stiel Rule Dry Square
<u>b</u> .	Marking for saving & Drilling	swface Plate, V' Block	unauk	Height Gauge
٩.	sawing as per marking	Bench vise	Hack Saw with Blade	Steel Rule
	Drilling	Builling machine Vice	Twist Duil 10mm	blied Rule
<u>II.</u>	Removal of Burns all over.	Burch vise	Importh Flat File	
12.	Final Inspection	_	-	Vernier Calliper