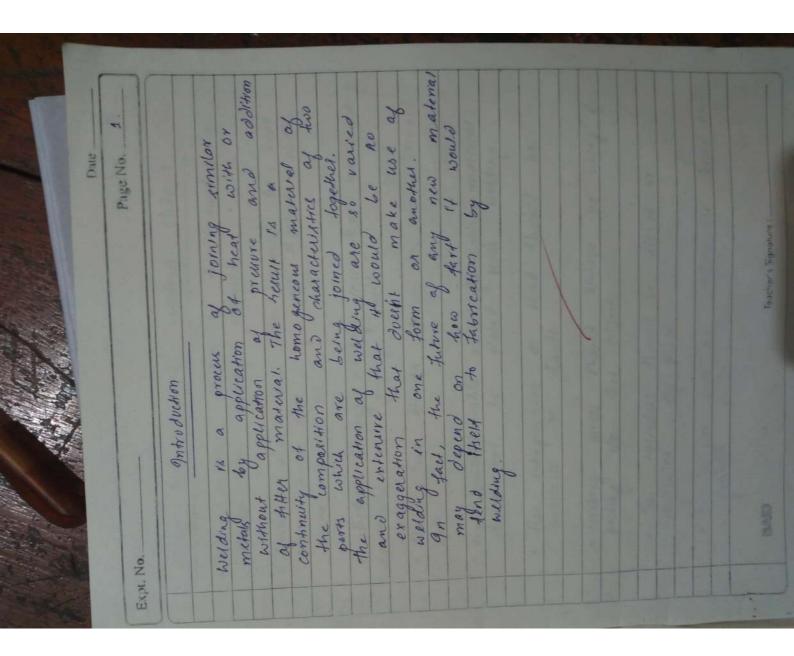
Sino Topic. Ander Arelex Anthroduction 1. Charity Precentions 2. Saddy Precentions 2. Classification of 4-6 Listeding.		The state of the s	
Topic. Topic. Throduction Sadety Presentions Classification of 2-3 Localding. Types of welding 2-6 Welding. Types of welding 4-8 Cry. Meetylene principle 10 Worth aliagram of 11-32 Types of flome. Types of flome. Types of flome. Types of are welding 15-14 Receiple of are welding 15 Are welding principle 47-16 Are coelding principle 47-16 Are coelding principle 47-16		Job Drary.	13.
Topic. Topic. Topic. Throduction Sattly Presentions Classification of 2-3 Classification of 4-6 Lockding. Lockdin		Are watering Tool	73 .
Topic. Topic. Throduction Satisfy presentions classification of eyes classification of eyes welding. Types of theme principle solding acetylene principle only acetylene principle solding attempt of theme. Types of theme. Types of theme. Types of theme. The principle of are welding the principle of are welding the principle of are welding the principle of theme.		a equipments wi	
Topic. Topic. Topic. Throduction Sately Precentions class Hication of 4-8 class Hication of 4-6 welding welding the diagram of 4-8 ony actifine principle to has welding appoint 15-14 Roller Materials of any welding 11-12 Types of flame. The detep of any welding 11-12 A spinciple of any welding 11-12		Anc welding prin	11.
Topic. Topic. Topic. Topic. Throduction Introduction Sately Presentions classification of 2-3 classification of 2-3 welding. Welding welding 1-8 welding welding 1-8 welding of welding 1-8 welding of methods its detep of flome. Types of flome. Types of flome. 11-12 8cas welding symposite 15-14	5.1	Principle of are w	/6.
Topic. Topic. Topic. Throdocation Introdocation Sately precentions classification of et-6 classification of et-6 classification of et-6 cony. Acceptance gas welding wordling wordling wordling wordling wordling the sith diagram of		Filer Materials	٥
Topic. Topic. Topic. Thoroduction Sately Precentions Classification of 4-6 Cony. Meetylene gas Loith diagram of 4-6 Types of flame. Types of flame. Types of flame.		egas welding equipm	8.
Tepic. Tepic. Throduction Introduction Satety Presentions Classification of 4-6 Classification of 4-6 Welding. Welding welding 4-8 Types of welding 4-8 Ony actylene pass its detep. The diagram of 4-152		1 Called	7.
Topic. Topic. Topic. Topic. Throduction Sately Presentions Classification of et-6 Classification of et-6 welding. welding to welding t-8 Sony-anetylene principle Logistication of et-6 welding to the diagram of et-6 welding to the diagram of et-6 welding to the diagram of et-6 welding to the ethics of et-6 welling to the ethics of ethi	11-12	The server	
Topic. Topic. Throduction Throduction Throduction Satisfy presentions classification of eyes types of welding Types of welding welding welding actylene principle to	1	with diagram of	
Topic. Topic. Throduction Satisfy Presentions classification of 4-6 classification of 4-6 welding. Types of welding 7-8 yound. Acceptence gas 9	100	ony- acetylene principle	6.
Topic. Topic. Topic. Topic. Throduction Satety Presentions Classification of 4-6 Types of welding 4-8 Types of welding 4-8 Ony. Acchilence gas 9		welding.	
Topic. Topic. Throduction Sately Precentions Classification of 4-6 Types of welding 7-8	9	Ony- uch lene gas	5
Topic. Topic. Throduction Throduction Satisfication of 4-6 Classification of 4-6 Typed of welding 7-8		joint.	
Topic. Topic. Topic. Throduction Satisfy Pricontions classification of 4-6 welding.	8-1	Types of welding	40
Topic. Topic. Topic. Throduction Satety Precentions Classification of 4-6		welding.	
Topic. Topic. Throduction Sately Precentions 2-3	4-6	classification of	د
Topic. Topic. Throduction Throduction Throng Page	2.5	Sately Precoutions	0
Page Page Anclex Tepic. Page	10	Introduction	**
Page		Topic.	S:No
		gnelex	
Date	Page No.		No.
	Date		



		Date
Expt	. No	Page No3
	· Actors under labeling man	maintainence work
	on welding machine, of the main supply	disconnect them tro
	· welding cables should insulated.	be completely
	o Always fight fitting dress.	es should be wor
		TANK TOWN TOWN
	a) Gue derden berlet.	

xpt. No.	Page No. 4
classification of	welding.
i) Are welding.	
1) Metal - are welding withou	il and distriction
2) Metal- are welding with	avered electrodes
3) Gravity are welding	with energy electrode
4) Base wire metal arc	holding.
3) Plax - coned metal	arc welding.
6) Fire cracker welding	
7) Submerged are welden	g.
8) submerged are welding	& with wine Istrip
electrode	1.1
9) Gas shielded metal	are belding.
10) MIG welding.	
11) MAG Welding, me	tal are welding
with non-mert age	Khield
n) Gas shielded weldi.	of with non-
consumable electrode.	V
13) TIG edelding.	
14) Atomic - hydrogen c	welding.
14) Atomic-hydrogen o 15) Plasma are we	elding.
10) other are welding	
17) Carbon are weld	
	welding.
To A MED	
DARD	cher's Signature :

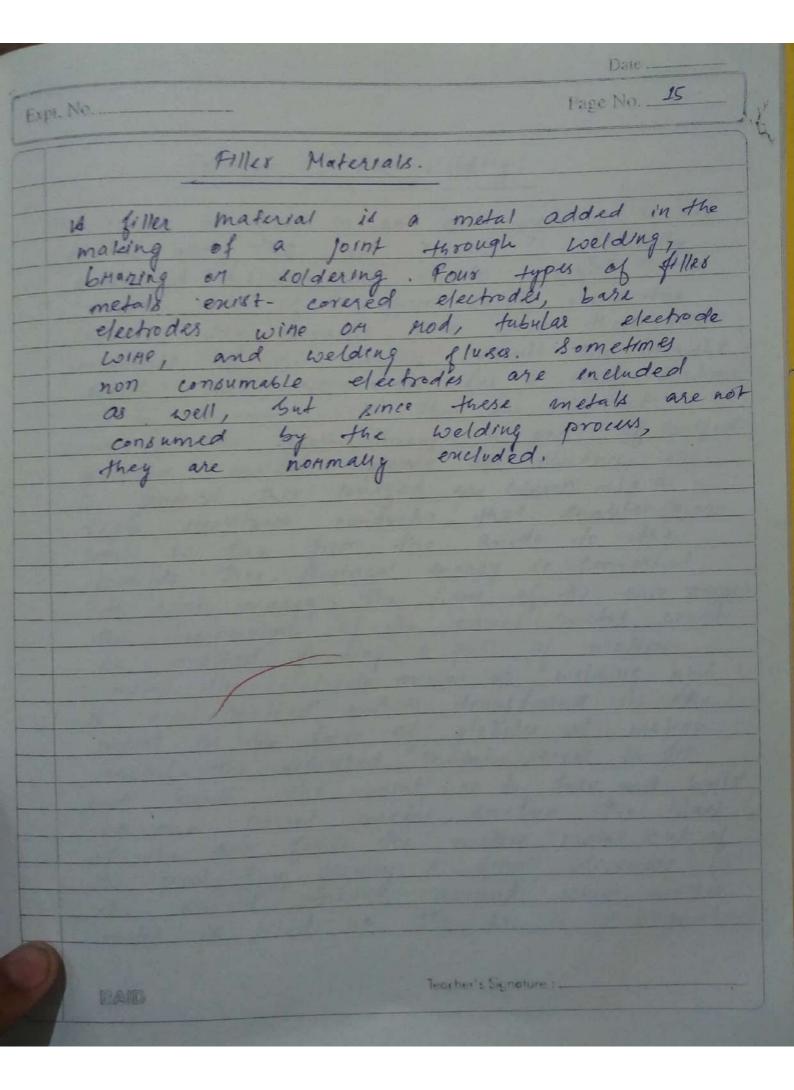
1) Resistance welding. 1) Spot welding. 2) lap beam welding 3) Seam wedding with Strip. 4) Flooh welding. 5) projection welding. 5) Projection welding. 6) Flash welding. 7) HF Resistance welding.	Page No. S
1) Resistance welding. 2) Spot welding. 2) lap beam welding 3) Seam wedding with strip. 4) Flooh welding. 5) Projection welding. 5) Projection welding. 6) Flash welding. 7) HF Resistance welding.	
J) spot welding. 2) lap beam welding 3) seam wedding with strip. 4) Flooh welding. 5) projection welding. c) Flash welding. 7) HF Resistance welding.	
1) spot welding. 2) lap beam welding. 3) seam wedding with strip. 4) flooh welding. 5) projection welding. 6) flash welding. 7) HF Resistance welding.	
2) lap beam welding 3) seam wedding with strip. 4) Flooh welding. 5) projection welding. c) Flash welding. 7) HF Resistance welding.	
3) Seam wedding with Strip. 4) Flooh welding. 5) projection welding. c) Flash welding. 7) HF Resistance welding.	
4) Flooh welding. 5) Projection welding. c) Flash welding. 7) HF Resistance welding.	
flash welding. 7) HF Resistance welding.	
7) HE Resistance welding.	
7) HF Resistance welding.	
J.	
(10) Gas welding?	
1) 0x4- fuel acc 100/1	
2) Dry- acchilence rece 12	
3) Oxy - propane welding	
4) Bry - hydrogen welding	
5) Air fuel gas warding	
1) Oxy-frel gas welding. 2) Oxy-acetylene gas welding. 3) Oxy-propone welding. 4) Oxy-hydrogen welding. 5) Arr free gas welding. 6) Arr propone welding.	
(iv)	
sollo Phase Welding, presure	e welding:
1) Ultrasonic welding	<u> </u>
2) Friction welding	
3) Force welding	
4) Cold welding	
1) Ultrasonic welding 2) Friction welding 3) Force welding 4) (old welding 5) Diffusion welding	

Oxy- Acetylene gas welding. Ony-acofylane gas welding is accomplished by melting the edges on surface to be joined by gas flame and allowing the motten metal to flow together, thus forming a solid continuous joint upon cooling. This process is particularly suitable for goining metal sheets and plates having thickness of the tomm. With material thicker than 15 mm, additional metal called filler metal is added to the weld in the farm of welding nod. The composition of the filler had is usually the same as that of the part being welding. To hemore the impurities and ondes present on the surfaces of metals of metals to be joined and to obtain a satisfactory bond, a flux is always employed during the welding except mind steel which has more manganese and silicon that act as deoxidizing agents. Teacher's Signature:

	Date
3)	
3) onidering flam	
1A to	
an onidising fl	ame es one en which there e small inner kone which
zones at	oxygin To en which the
has (1) the	e small hix flame has har
purplish	tinge and knone which
(11) the outer co	one on evelope. In the case of the inner cone is not as that of neutral on this flame of necessary brass. In steel, this wo large grain size, inchease in lower strength and clong
onidesing flance	ne on enelope. In h.
Sharply dofined	the inner cone is not
Carbualging Ilama	that of neutral and
For welding	Legas blame of necessary
Hesuit on a	large again steel, this w
Bruthle nees with	lower strength and mase
	llong
	A STATE OF THE PARTY OF THE PAR
	The state of the s
A Section of the sect	A STATE OF THE STA
The second secon	
	and the same of th

Expt. No				
			Date	
	Gai		Page No.	13.
1	- far 40	elding equ	Im and	
1) W	elding touch:	elding equ	friends:	
acety	lone a took	404	7 17 818	114,01
mint	ure at the	f proponting	ig onygen and	
gene	sally of	end of	and burning	the
V	6 70	so stypes -	- (1) equal	are
100 /	2011	V	(11) injector	type.
ho-lia	elding touch: 18 a took lene on correct ure at the vally of to velding tip:	9+ 18 that	Donling of	-01
Just	prior in	through in	wich the gase:	R
28	velding tip: ling apparatus prior to t a good v lding tips instruction.	aniety ignition	and burning	· these
we	ding tips,	differing en	inter changeabl.	e
0	nstruction.		size, shap	pe &
(3) Pr	essure regulator lation are - the required produce a endless of t	? The fanction	ns of	
Megu	lation are -	to meduce	the cylinder	Dr. M. Da
10	the require	d working	prisine and	alko
nego	erales at 1	he pressure	flow of gas	
8001	nce.	- Januari	variations at	the
110 0		P		
The	be and he	le sittings	val as	
6 tron	a, durable,	nonportous	and light	oe The
mos	se and he hove for g, durable, t common	method of	piping be	th

fage No. 14 Expt. No ... hubber hose. In the neinforced (5) Gas cylinders: orygen gas va cylinders are usually charged with 40 litres of onygen at a pressure of about 154 kgf/cm². (0) Teacher's Signature :____



Page No. 17. ENDL. No. .. by widening the are sufficiently. Anc welding steep & Equipments with gliggram 3-The setup continues of a nectangular steel tank mounted on three-typed wheels, the front wheel swiveling and steerable by means of a draw bar. An Oil-cooled i double wound step down trains former reduce the supply mains voltage to a welding voltage of 30. All windings are totally enclosed in the Steel tank. The output of the transformer can be varied by rotating a hand wheel which afters the air gap in the core of the cheke hesulting in steplen negulation of the current boetween so 8 400 amp. The welding current setting can be directly head ato the window of the top corner. The sed can be connected to two lines of 400/440 volts, 3- phase so a.c. supply; It negwines about 109 vitres of class & transformer oil. Equipments: (1) ac on de machene (11) electrode Teacher's Signature : ____

	Date
Vo.	Page No. 16
Marine Marine Teller	
(111) electrode holder	
(iv) cables, cable connectors.	
(v) cable lug.	
(vi) chipping hannmer	
(vi) earthing clamps. in	
(VII) earthing clamps. 17 (VIII) WITTE bouch	There is the second
(ix) holmet	
(x) Safety goggles	1 100 1 1841 195
(x1) hand glores.	
(x1) Safety goggles (x1) hand glores. (x11) aprons, sleeves, etc	
THE RESIDENCE AND SOUTH AND SOUTH ASSESSMENT OF THE SECOND SOUTH OF THE SECOND SOUTH OF THE S	
There are alless a relacion of a	
the same the exist do to	
white the state of the state of	derest de
please the property of	de estat de
The state of the s	

Date ____ Tage No. 19. Expt. No... Are welding Tods: 1) Electrocks: Both consumable and non-consumable électrodes are used for arc welding. Non-consumable electrodes are made af carbon, graphite on trujeten which don't consume during the welding operation. Consumable electrodes may be made af various metals depending upon their quipose and the chemical composition of the metals to be welded the consumable electrodes may be bare, or coated Townsonly called a slinger is a clamping device for holding the electrode sewrely in any position. The welding cable is at ached to the holder through the hollow insulated handle. In weiding, the primary purpose of flux is to prevent the anidation of base and the silver materials. Flux is a substance which is nearly ment at moom deep but which becomes strongly hedreng at clevated leng. preventing the formation of metal omides. Additionally, the formation of metal omides. Additionally, the working piece rester than forming beads as it would otherwise (3) Pur: Teacher's Signature :____

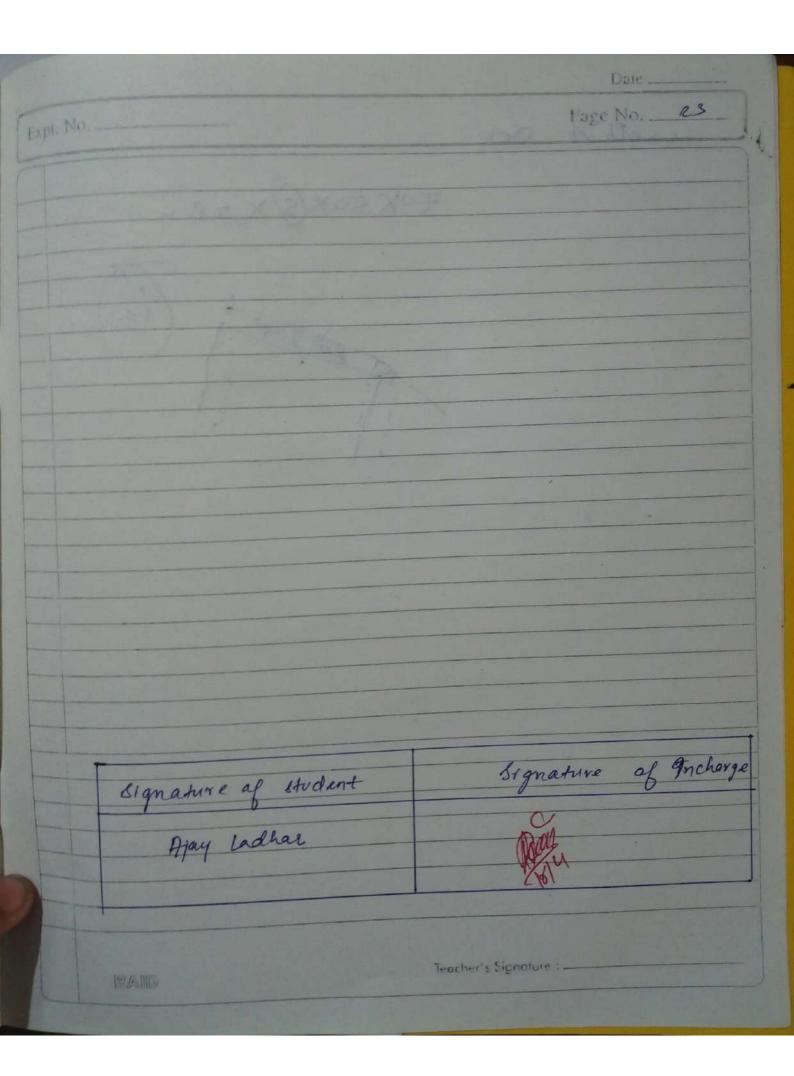
Page No ._ Expt. No .. (4) Eye shield:

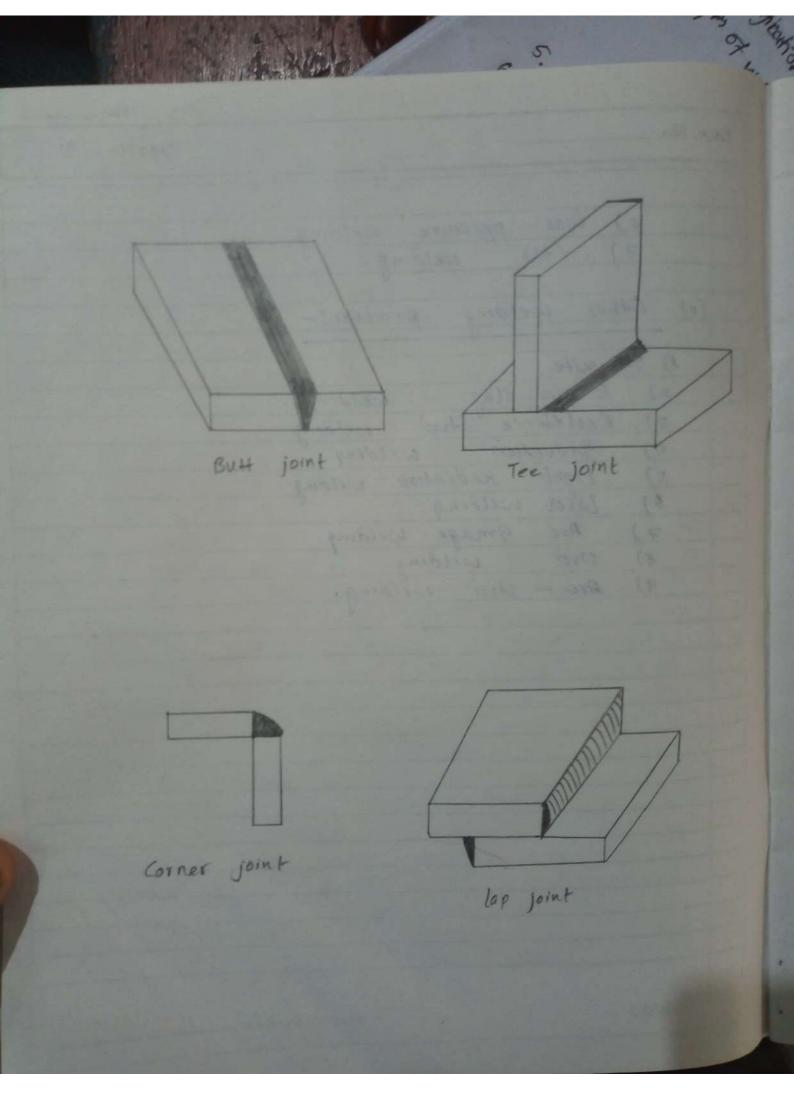
Eye shields are very important in welding as it protects the eye from hamful heat and infrared eyes 5) Clipping hammer:
A chipping hammer is a total used to memore welding slag from a weld. (6) Wire brush:

After using the chipping hammer, the wine brush is used to nemove the stag and impurities and undesined particles from the workpiece. Gloves are used to protect the hand from the heat. Teacher's Signature :____

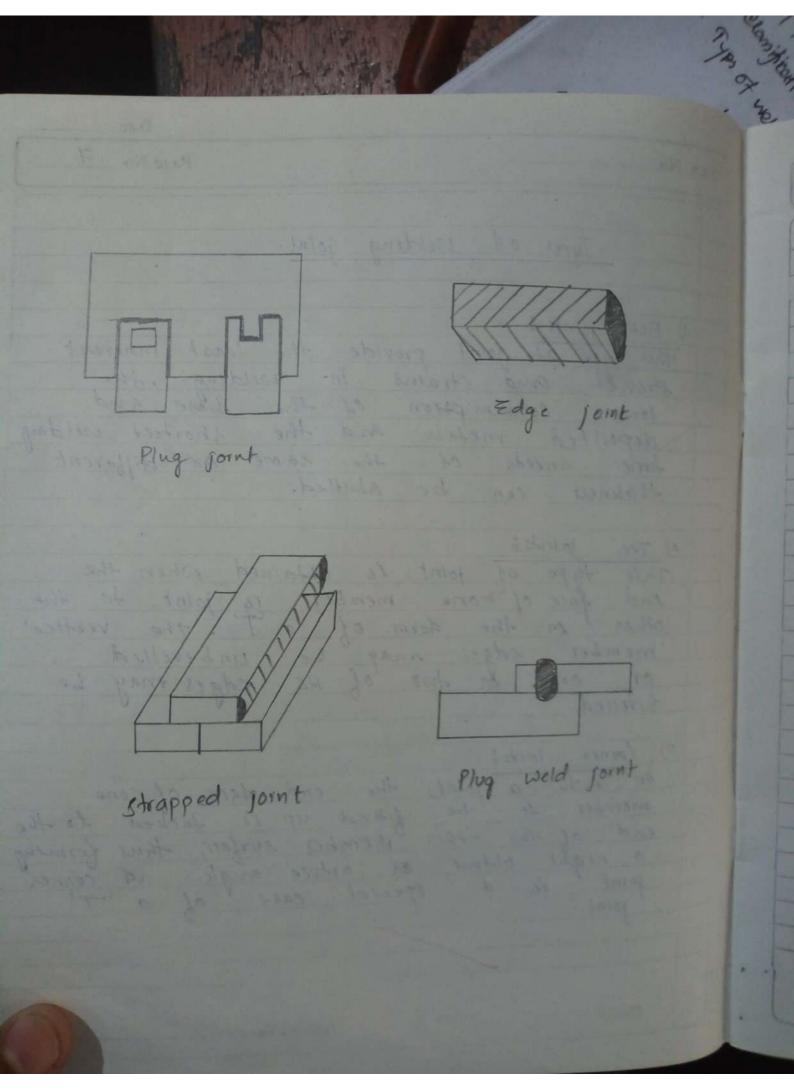
. No				Page	No 21	
		TOINT by	are DHP.			
	Aller III	Job Diar	The second secon			**
SL.No.	Name of Job	Materials used	Tools and equipment Used	Time	Oblamed Time	Rema
4	Butt jomt	Mild steel flate plate	Steel Scale, Shop saw, heck saw, table vice, biller,	3 hn	3 hz .	
		MAAA	flat file, tongs, chipping hammer, halmet, electrode holder, T-square, steel brush, anvil	100		
· Meas	**	OPERATIONS	INVOLVED.	mea	sure th	e
• Ma			rule 10 used to	mm	using	
	-	at file			ain 70	mm
		done w		T- 59L	iare	
			Teacher's Signature :-			

Date ____ Page No. 12 Expt. No. -· tacking: done by joining both the ends · Welding: done with electric are welding · chipping: done with help of chipping hanner · cleaning: done with the help of Steel brush · cooling: it is left undisturbed for natural cooling. Teacher's Signature :

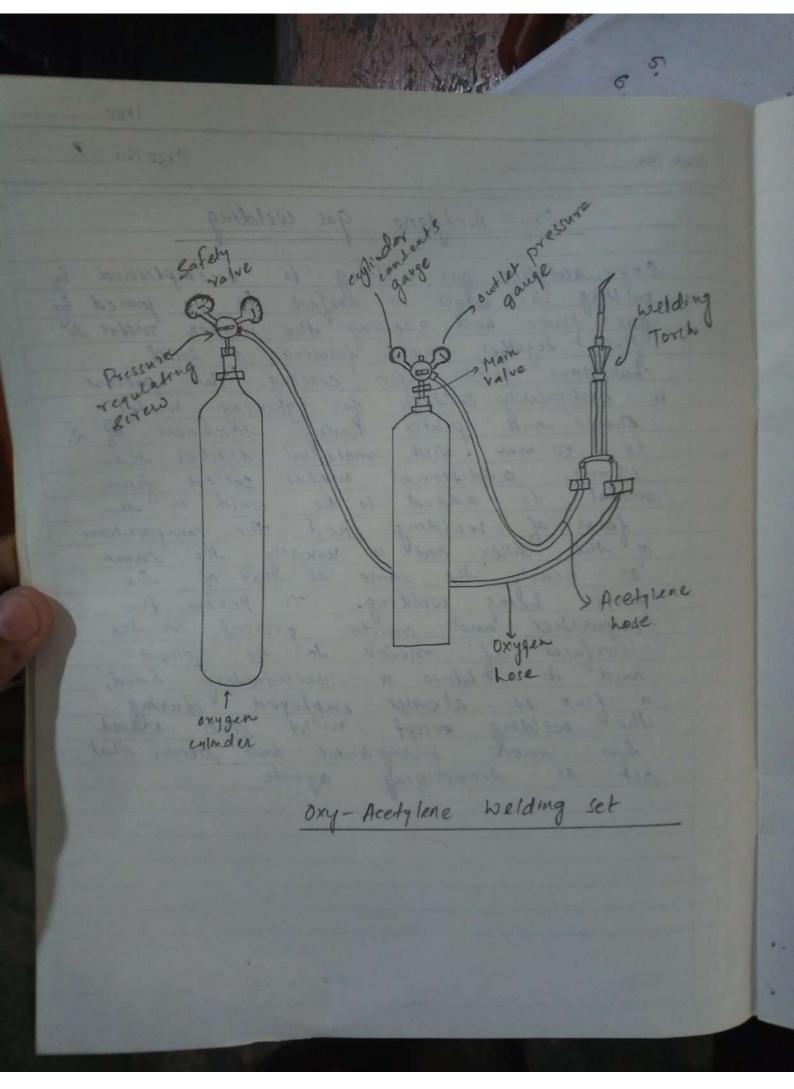


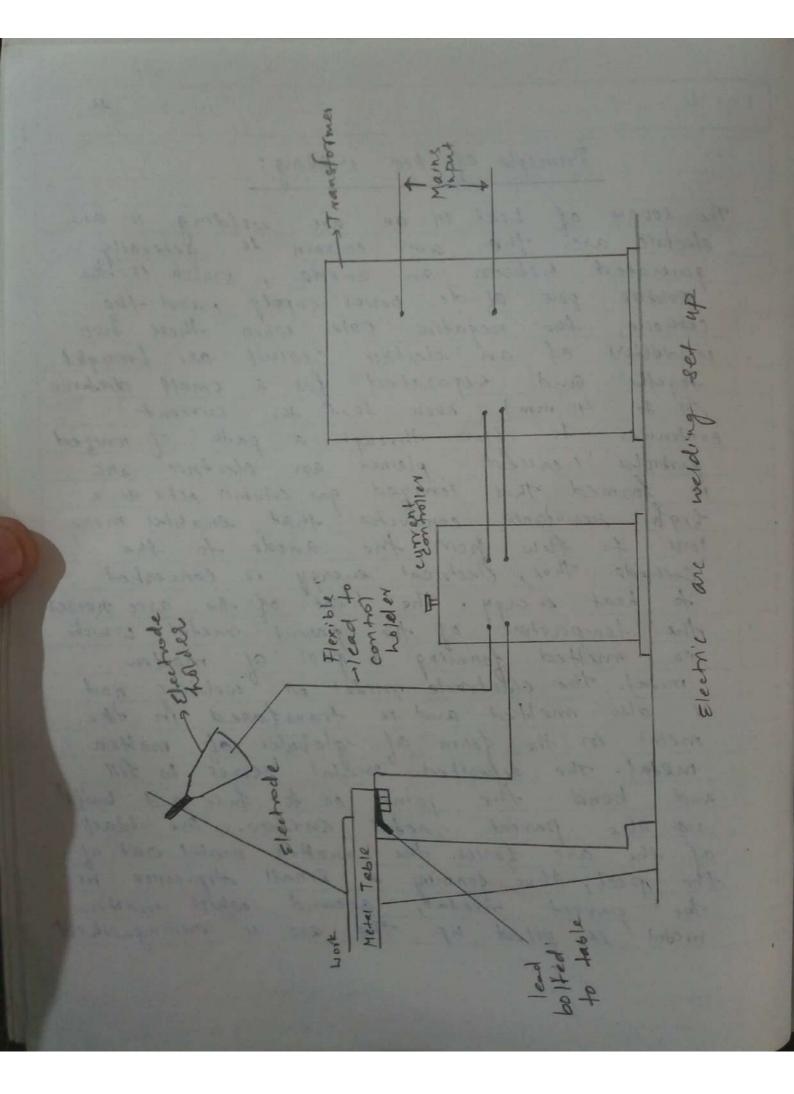


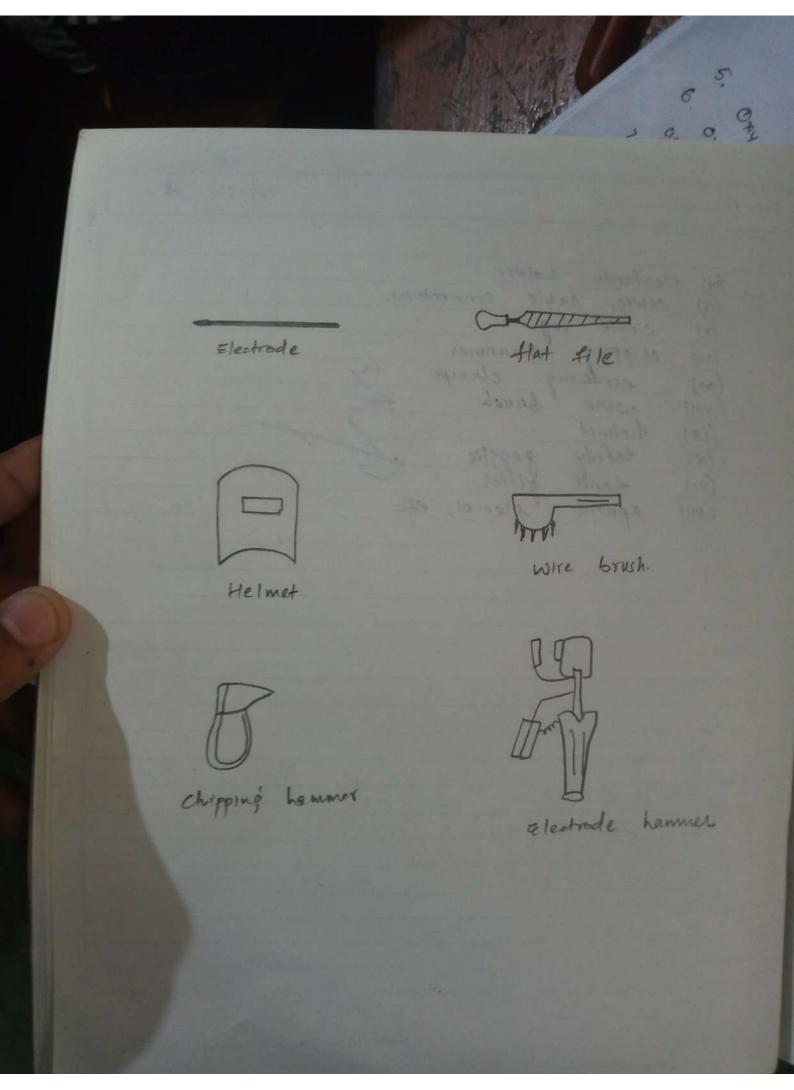
Scanned by CamScanner



Scanned by CamScanner







Scanned by CamScanner

