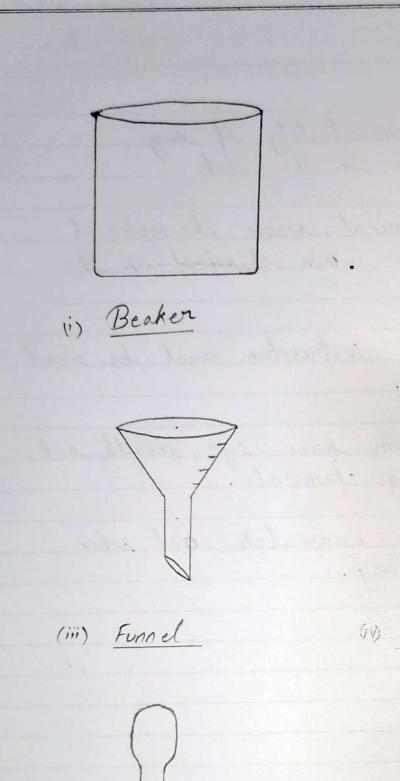
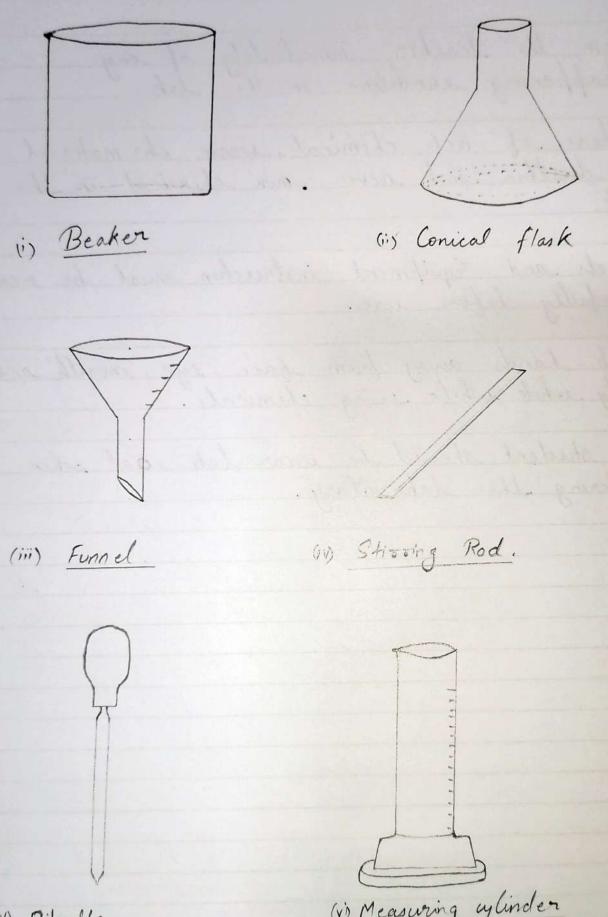
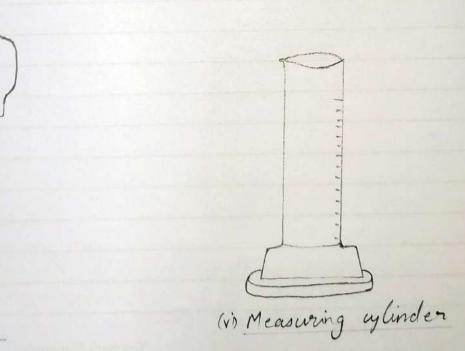
	Date
Exp	Page No
	Safety Rules:-
(i)	Conduct yourself in a responsible manner.
0:)	Follow all detail and further instruction.
(77)	Ark was to all 11
-(1)	Ask your teacher before proceeding with the
(iv)	Never work alone in the laboratory.
(v)	A de la dela de
(V)	materials in the laborate the chemicals or other
	Do not touch any equipment, chemicals or other materials in the Jaboratory area in until you are instructed to do so.
(vi)	Unauthorised experiment are not followed.
(vii)	Do not eat food, drink or chewing gum in
	Do not eat food, drink or chewing gum in the the laboratory.
(viii)	Pand all banaduses thousands III
3107	Read all procedures thoroughly before entering the laboratory.
(ix)	Work area should be kept clean.
(x)	Be alert and brocked with contion at all him
	Be alert and proceed with caution at all times in the laboratory.
	Teacher's Signature

	Date
Expt. No	Page No
(xi) Inform the teacher immediately mishappening condition in the	of any lab.
(xii) Dispose of all chemical, wast in dusthin and never min es	he cho material
(xiii) Labels and Equipment instruction carefully before use.	The state of the s
(xiv) kelp hands away from face, body white while using chemical	eye, mouth and
(xv) All student should be wear la entering the laboratory.	b coat when
Teacher	s Signature

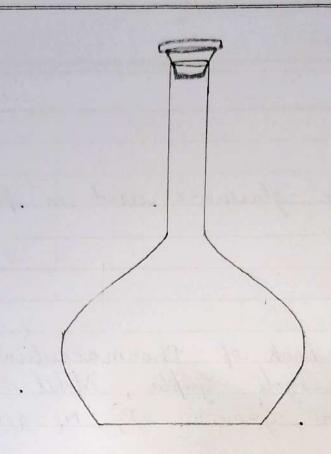




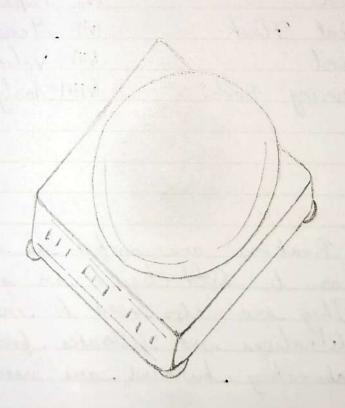


(V) Pipette

	Date
Exp	t. No Page No
	Aim:
	To study the glassware used in pharmaceutical chemistry lab.
	Reference:
	A Practical book of Pharmaceutical chemistry. Author - Dr. Tyoli Gupta, Mohit Sandysa, MS. Madhuri Grover, Pg. No - 1 to 7.
	Requirement: (i) Beaker (v) Pipette
	(ii) Conical Flask (vi) Measuring Cylinder (iii) Funnel (vii) Volumetoic extinder flask (viii) Starring Rod. (viii) Analytical Wt. machine.
	Theory:
(i)	Beaker: > Beakers are useful as a reaction container por to hold liquid or solid samples.
	They are also used to ratch liquids from literations and filtrates from faithering operations. Laboratory burners are used to heat the beaker.
	Teacher's Signature

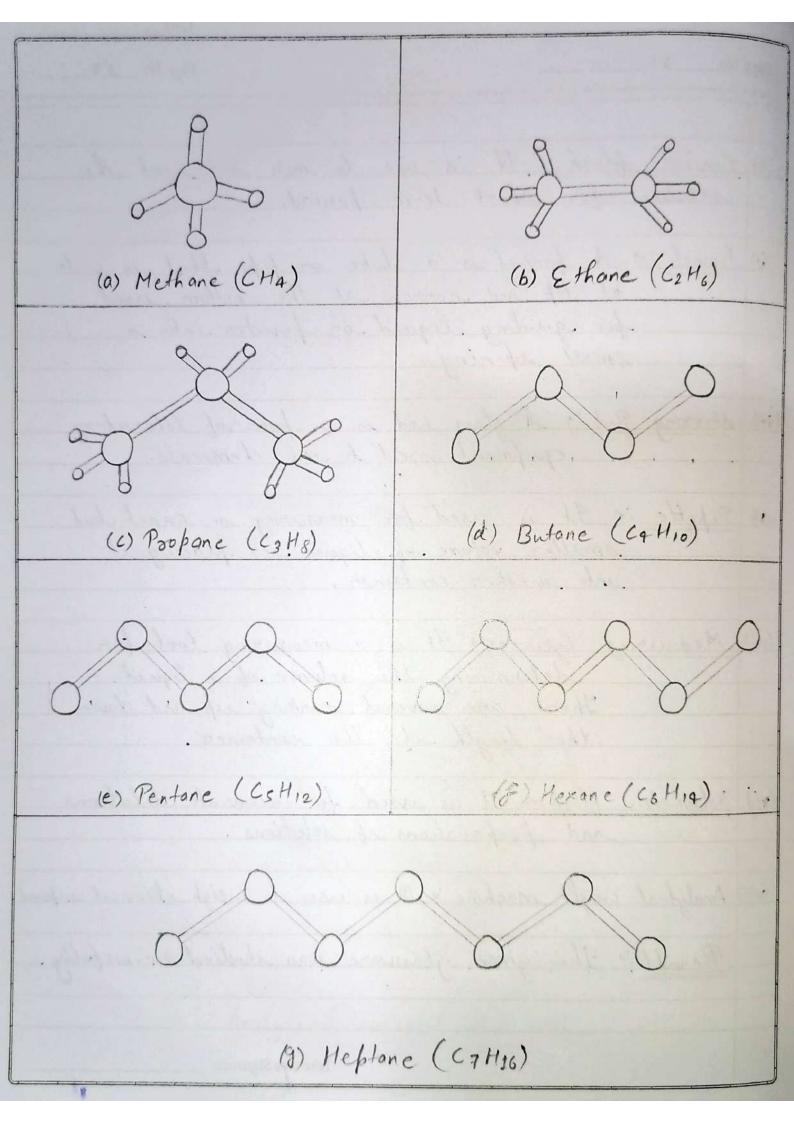


(vii) Volumetric Flask

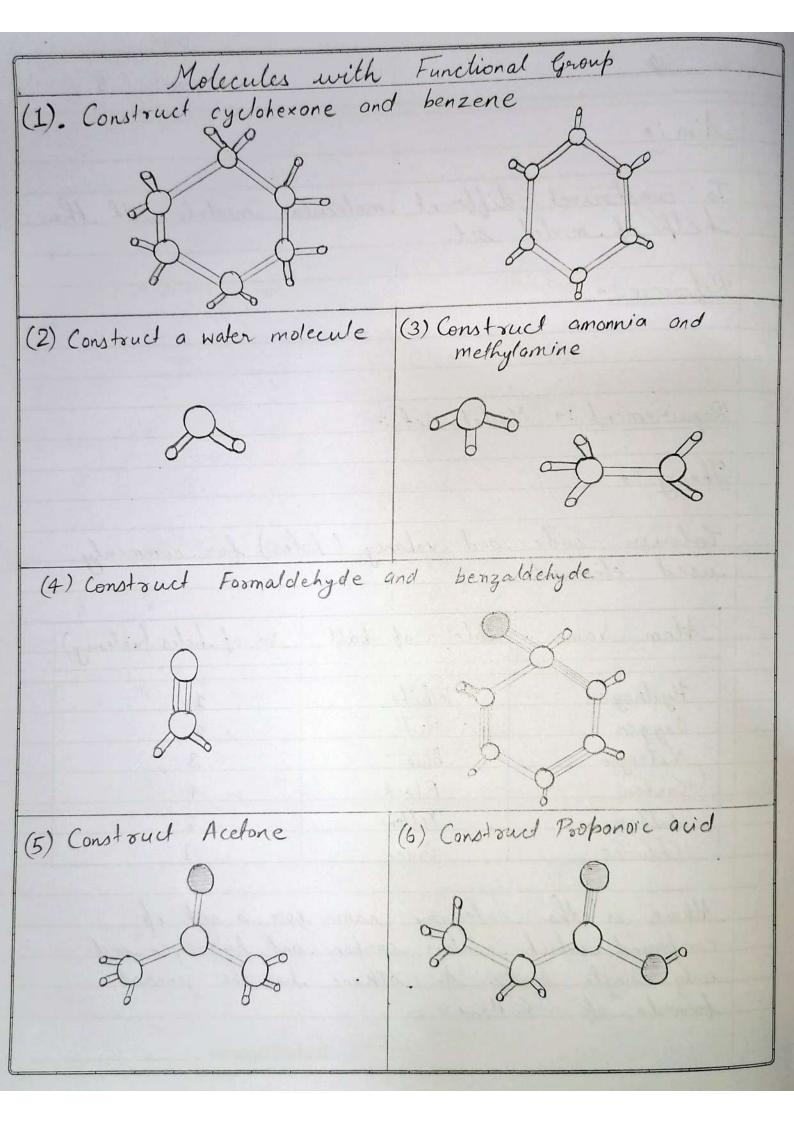


(VIII) Analytical weight machine.

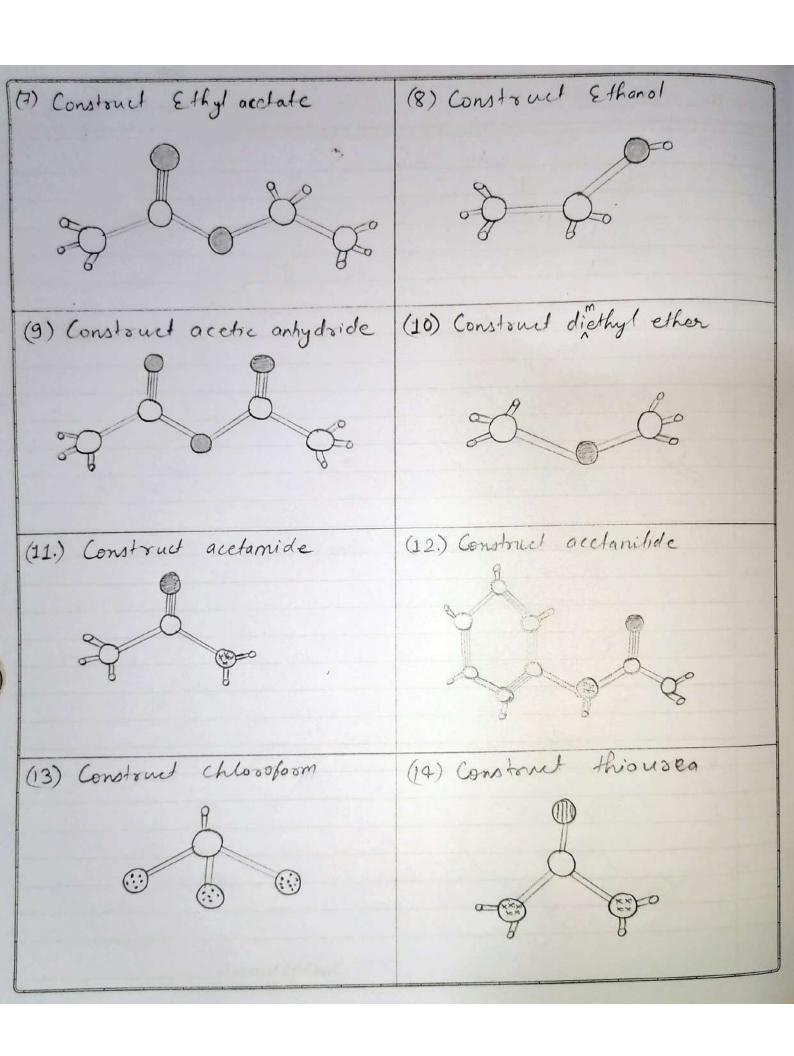
	Date
Exp	Page No 0 4
- 210	Panical Wash: 11.
_(11)	solution for all is use to min and heat the
	Conical blask: - It is use to min and heat the solution for short term period.
(iv)	Funnel: A funnel is a tube or pipe that is wide
	at top and narrow at the bottom, used
	por guiding liquid on houses into
	for guiding liquid or powder into a small opening.
(1)	Stirring Rod: A glass rod is a fiece of laboratory
	Ativoing Rod: A glass rod is a fiece of laboratory equipment used to mix chemicals.
1	
(Y)	Pipette: It is used for measuring an enact but smaller volume of liquid and placing it
	into another container.
	Save Saverent,
(vi)	Measuring Cylinder: It is a measuring tool for
	determining the volume of a liquid.
	There are several marking up and down. the length of the container.
	the length of the container.
(· · · · ·	
(VII)	Volumetric flask: 5 9t is used for accurate dilutions and preparations of solutions.
	and preparations of sources.
(Viii)	Analytical weight machine: 9 It is use to weigh chemical compound
	Result: The given glassware was studied successfully.
	Teacher's Signature



2		Date
Expt. No2		Page No
Aim:>		
- James -		
To constance	1.11	
help of mode	aufberent molecu	lar models with the
may af mode	set.	
Reference:		
•	William	
Requirement :>	Model Net:	
-		
Theory ! +		
Colour code	and valary (h	oles) for commonly
used element		
Atom Name	Colour of ball	No. of holes (valency)
	1.1.1	
Hydrogen	White	1
Onygen	Red	3
Nitrogen	Blue	3
Carbon	Black Yellow	2
Sulfur	Gree	1
Chlorine	Urace	
111. 11	coteanny name	for a set ob
Alkane is the	category name of	and hydrogen and
Compound which	Is An alkane.	has the general
hours single po	nds. An alkane.	U
growing a 2019		her's Signature
	Teac	ners signature



	Date
Expt. No2	Page No
	in the design of the stand to the
	Teacher's Signature



	Date
Expt. No2	Page No
Double bond L = =)	Single bond
O > Carbon	
O =) Oxygen	
> Nitrogen	
(ii) > Chlorine	
⇒ Sulphur	
0 → Hydsogen	
Result:	
Construction of different molecular model set was successfully be	dels with the
TOP SO MOSS SON STREET SPECIAL	THE STATE OF THE S
Teacher's Signature	

Observation Table

S.No.	Experiment	Observation
1.	Physical state	Solid
2.	Colour	white
3.	odown	odowness
4.	Solubility Jest	
A COLUMN	A Land A	

1.	Somple + Cold water	Partially dissolved
2.	11 + Hot 11	easily "
3,	" + Conc. H2504	Partially "
4.	11 + hot conc. H2504	easily ".

Expt. No. ____3

Page No. 9

	Observation	Inference
7	Soluble in hot water and solution is acidic to litmus.	Salt of aromatic bases lower aliphatic acid hydroxy acid or Polly hydrogen Phenol.
7	Soluble in cold water and solution in nentral.	Carbohydrates or all alcohol.
Þ	Soluble in fold dilute Natton with effervercence	Starch,
7	Solute in hot water and solution in nentral.	Starch,
7	Soluble in cold dilute NaHCOz with effervesence	Carbonylic acid, (strongly acidic)
7	Soluble in cold dilute NaOH	Carboxylic acid or Phenol.
7	Soluble in cold cone. H, soq	Asomatic hydrocarbons or Phenol
→	Soluble in hot conc H, soq and charring occur.	Carbohydrates accident kelone or phenol. hydroxy acid.
		Teacher's Signature

	Date
Expt. No3	Page No
Procedure:	
i) Take a clean and dried test tube	and beaker.
ii) After that a 19 gm wrea fut in accurately.	each test tube
accurately.	
(iii) Note heated water in beaker with heating mantle.	
iv) After that we put 3 ml hot wat	er with figette
in one that test tube and mark u	p fest tube as
it is with hot water.	
v) After observing first reaction we	lone . 2 nd with
3 ml cold water it one gram of	urea and mask
that as told one and sharive it	
Result:-	
The since sample of uses was or	bserved in
The given sample of urea was or different sample successfully.	
Teacher's Sig	nature

Observation :-

S. No.	Experiment	Observation
1.	5 ml ob water	Two sied
	A Packed C. A.	litmus to
	Dextrose anhydrous	blue

ordered in Dorton Dishill sater conselled

S.No.	Experiment.	Observation
1.	Physical State	Solid
2.	Colowr	white
3.	Odowr	Odourless
4.	Solubility test.	okserkandana hinkle usugana

1.,	Sample + cold water	Partially dissolve
2.	Sample + Hot water	Easily dissolve
	Sample + not come. H_250g	Burn the sample

it sate of all clear all the alconomy

semples a sugar. Such see merere Them

contabilizer sich seit aufle suger between

	Date
Expt. No	Page No13
(v) Now add hot water and 3 ml to a different to (v) Now take 3 ml of conc. In (vi) Add hot conc. H ₂ so q	d cold water each of
(V) Now take 3 ml of cone 1	l co ad la la tall
(v) Add hot conc. H. SD.	in another leat tube
12 = 4	Sir aronner sost suise.
(vii) Now add sample of dent.	rosein each of test tube.
(viii) Note the observation.	
Result:-	
The given sample of der	trose anhydrous in
three test tube, one	was hot & water and
bood found sample was	easily dissolved, 2 nd was
cold water and found .	sample were partially
dissolved and lastly was bound that sample were shidied successfully.	hot conc. H250g and
found that sample were	boon burn and
studied successfully.	
	Teacher's Signature

				Date	
Exp	ot. No	0.5		Page No	
	Aim	>			
	To	determine the acid val	re of	HC.	333
_		ence:			
					Port of the last
	Dr 1	Miniyar P.B. Dr. Jain,	K.B.	Ap practical	1
	Book	Minigar P.B. Dr. Jain, of Pharmacentical Organ	ic. Che	mistoy, "Nivali Pub	lication)
	Regni	nement:			
			•	at the	
	S.No	Chemicals	Qtymi)	Apparatus	aty
	1.	Fixed oil (eg. A (astoroil)	10.9	Iodine blask (250ml)	01
	2,	Potassium hydroxide	2.9	Reflux condensor	01
		0		307/01/04/07	
	3.	Cone. HCI	3,9	Buretke (som!)	01
	4.	Methyl red (as indicator)	0.5	Beaker (250ml)	01
	5.	Sodium Casbonate	0.59	Pipelle (10ml) graduated	01
	6.	Phenolphthalein Sol	2 ml		

Teacher's Signature _____

_		Date
Exp	pt. No 6 S	Page No
	Theory:-	
	Acid is a will	
	Acid is a substance that is sown in	taste. It
	to gred It's	H in least
	1 1s a molecule DX 12 mg	(Ababla
	a poolen kunn	a Roser lad
	capable of borning	1 Malent
7	Lection known as lewin	arid
	ategory of acids are the	Proton
	in societa way acids, Its	agueous
	in take it was.	
	Ex HCl, Sulphuric acid.	
	Hidaadlan alla luad Ti	
	Hydrochloric acid: - (HCe) -> It is also	known as
	murialic acid is an agreeous solution	of hydrogen
	chloride (chemical formula - HCI). It is	a colourless
	solution with a distinctive pungent smel	1. It is
	classified as a strong and, HCI is	an impostant
	laboratory reagent and industrial cher	nical
	hydrochloric acid has many uses. I.	is used
	in the production of chloride feat	ilizers and
	dyes in electroplating and in the Ph	otographic,
	tentile and rubber industries. It is	orrosive
	to eyes, skin and mucous membrane	
	MCI is commonly known used	for the
	nentralization of alkaline agents as a	bleeding
-	agent in bood, textile, metal and one	bber industries

Teacher's Signature _

	Date
Procedure:- (i) Weigh about 10 g of the substance being examined in an iodine black. (ii) Professe 50 ml minture of equal volume of etheral (25t) and ether sed 0.5 ml phenoliphthalein solt and litrate it against 0.1 N agreeous potassium hydroxide (KOH) solt to newtralise it. (iii) Dissolve weighed quantity of the substance in above neutralised solt if the somple does not dissolve in the cold solvent, connect the flark with condenser and warm slowly with frequent sheking until the sample dissolve. (iv) Add 1 ml ob phenoliphthalein solution and titrate with 0.1 N agreeous petassium hydroxide (KOH) solution until the solution remains faintly fink after shaking for 30 seconds. (v) Calculate the acid valve from the fellowing equation. Acid value = 5.61 × n Where n = the no: of all of 0.1 N potassium hydroxide all	Expt. No 6 5 Page No 16
in an iodine black. (ii) Pachane 50 ml minture of equal volume of elhanol (25%) and other and 0.5 ml phenolphthalein solf and litrate it against 0.1 N agreeous potassium hydronide (KOH) solf to neutralise it. (iii) Dissolve weighed quantity of the substance in above neutralised solf if the somple does not dissolve in the cold solvent, connect the flark with condenser and warm slowly with frequent shaking until the sample dissolve. (iv) Add 1 ml of phenolphthalein solution and titrate with 0.1 N agreeous potassium hydroxide (KOH) solution until the solution remains faintly fink after shaking for 30 seconds. (v) Calculate the acid valve from the following equation. Acid value = 5.61 × n Where n = the no. of ml of 0.1 N potassium hydroxide with	
10) Prefare SO ml minture of equal volume of elhanol (35 t) and ether sod 0.5 ml phenolphthelein sol 2 and litrate it against 0.1 N agreeus potassium hydronide (KOH) sol 2 to neutralise it. (iii) Dissolve weighed quantity of the substance in above neutralised sol 2 if the somple does not dissolve in the cold solvent, connect the flash with condenser and warm slowly with frequent shaking until the sample dissolve. (iv) Add 1 ml of phenolphthalein solution and titrate with 0.1 N agreeous potassium hydroxide (KOH) solution until the solution remains faintly fink after shaking for 30 seconds. (v) Calculate the acid valve from the fellowing equation. Acid value = 5.61 × n Where n = the no: of ml of 0.1 N potassium hydroxide of	
and litrate it against 0.5 ml phenolphthalein solt and litrate it against 0.1 N aqueous potassium hydronide (KOH) solt to neutralise it. (iii) Dissolve weighed quantity of the substance in above neutralised solt if the somple does not dissolve in the cold solvent, connect the flark with condenser and warm slowly with prequent shaking until the sample dissolve. (iv) Add 1 ml of phenolphthalein solution and litrate with 0.1 N aqueous potassium bydrovide (KOH) solution until the solution remains faintly fink after shaking for 30 seconds. (v) Calculate the acid valve from the following equation. Acid value = 5.61 × n	in an iodine black.
and litrate it against 0.5 ml phenolphthalein solt and litrate it against 0.1 N aqueous potassium hydronide (KOH) solt to neutralise it. (iii) Dissolve weighed quantity of the substance in above neutralised solt if the somple does not dissolve in the cold solvent, connect the flark with condenser and warm slowly with prequent shaking until the sample dissolve. (iv) Add 1 ml of phenolphthalein solution and litrate with 0.1 N aqueous potassium bydrovide (KOH) solution until the solution remains faintly fink after shaking for 30 seconds. (v) Calculate the acid valve from the following equation. Acid value = 5.61 × n	11) Prepare 50 ml minhora of all 1 10 of
(iii) Dissolve weighed quantity of the substance in above neutralised sol = if the somple does not dissolve in the cold solvent, connect the flash with condenser and warm slowly with frequent shaking until the sample dissolve. (iv) Add 1 ml of phenolphthalein solution and titrate with 0.1 N aqueous potassium hydroxide (KOH) solution until the solution remains faintly fink after shaking for 30 seconds. (v) Calculate the acid valve from the following equation. Acid value = 5.61 × n Where n = the no. of ml of 0.1 N potassium hydroxide No.	(95%) and ether and 0.5 ml phenololy thelein solf
(iii) Dissolve weighed quantity of the substance in above neutralised sol = if the somple does not dissolve in the cold solvent, connect the flash with condenser and warm slowly with frequent shaking until the sample dissolve. (iv) Add 1 ml of phenolphthalein solution and titrate with 0.1 N aqueous potassium hydroxide (KOH) solution until the solution remains faintly fink after shaking for 30 seconds. (v) Calculate the acid valve from the following equation. Acid value = 5.61 × n Where n = the no. of ml of 0.1 N potassium hydroxide not	and litrate it against 0.1 N agreeous potassium
(iii) Dissolve weighed quantity of the substance in above neutralised sol = if the somple does not dissolve in the cold solvent, connect the flash with condenser and warm slowly with frequent shaking until the sample dissolve. (iv) Add 1 ml of phenolphthalein solution and titrate with 0.1 N aqueous potassium hydroxide (KOH) solution until the solution remains faintly fink after shaking for 30 seconds. (v) Calculate the acid valve from the following equation. Acid value = 5.61 × n Where n = the no. of ml of 0.1 N potassium hydroxide No.	hydronide (KOH) sol? to neutralise it.
dissolve in the cold solvent, connect the flash with condenser and warm slowly with prequent shaking until the sample dissolve. (iv) Add 1 ml of phenolphthalein solution and titrate with 0.1 N aqueous potassium by drovide (KOH) solution until the solution remains faintly fink after shaking for 30 seconds. (v) Calculate the acid valve from the following equation. Acid value = 5.61 × n Where n = the no. of ml of 0.1 N potassium hydroxide N:	
dissolve in the cold solvent, connect the flash with condenser and warm slowly with prequent shaking until the sample dissolve. (iv) Add 1 ml of phenolphthalein solution and titrate with 0.1 N aqueous potassium by drovide (KOH) solution until the solution remains faintly fink after shaking for 30 seconds. (v) Calculate the acid valve from the following equation. Acid value = 5.61 × n Where n = the no. of ml of 0.1 N potassium hydroxide N:	above neutralised sol if the somble does not
condenser and warm slowly with frequent shaking until the sample dissolve. (iv) Add 1 ml of phenolphthaleir solution and titrate with 0.1 N aqueous potassium hydroxide (KOH) solution until the solution remains faintly fink after shaking for 30 seconds. (v) Calculate the acid value from the following equation. Acid value = 5.61 × n Where n = the no. of ml of 0.1 N potassium hydroxide no.	dissolve in the cold solvent, connect the flash with
(iv) Add 1 ml of phenolphthalein solution and titrate with 0.1 N agreeous potassium hydroxide (KOH) solution until the solution remains faintly fink after shaking for 30 seconds. (v) Calculate the acid value from the following equation. Acid value = 5.61 × n where n = the no. of ml of 0.1 N potassium hydroxide vi	condenser and warm slowly with prequent shaking
with 0.1 N agricious potassium hydroxide (KOH) solution until the solution remains faintly pink after shaking for 30 seconds. (V) Calculate the acid value from the following equation. Acid value = 5.61 × n where n = the no. of ml of 0.1 N potassium hydroxide ni:	until the sample dissolve.
with 0.1 N agricious potassium hydroxide (KOH) solution until the solution remains faintly pink after shaking for 30 seconds. (V) Calculate the acid value from the following equation. Acid value = 5.61 × n where n = the no. of ml of 0.1 N potassium hydroxide ni:	62 111 1 1 1 102 11010 12: 114: 21 4:11
Solution until the solution remains faintly fink after shaking for 30 seconds. (V) Calculate the acid valve from the following equation. Acid value = 5.61 × n Where n = the no. of ml of 0.1 N potassium hydroxide Ni.	
(V) Calculate the acid value from the following equation. Acid value = 5.61 × n Where n = the no. of ml of D.1 N potassium hydroxide no!	solution until the solution remains brintly his
(V) Calculate the acid value from the following equation. Acid value = 5.61 × n Where n = the no. of ml of D.1 N potassium hydroxide no!	after shaking for 30 seconds.
Acid value = 5.61 × n Where n = the no. of ml of 0.1 N potassium hydroxide no!	
where n = the no. of ml of D.IN potassium hydroxide 101:	(1) Calculate the acid valve from the following equation.
	Acid value = 5.61 x n
	where n = the no. of ml of 0.1 N potassium hydroxide si
W = Weight of the substance in gm.	W = Weight of the substance in gm.
Teacher's Signature	