#### SAROJINI NAIDU VANITA MAHA VIDYALAYA

#### SSR - 2.3.1

#### **Student Centric Methods: Experiential Learning**

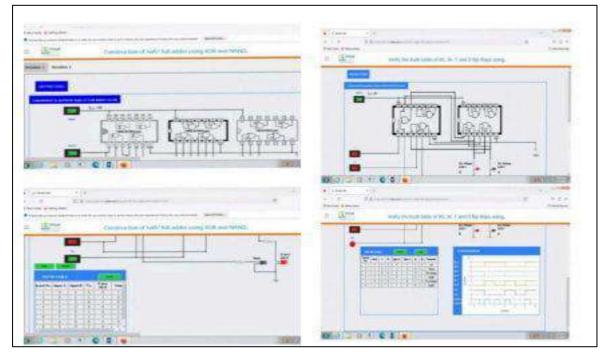
The Institution has adopted experiential learning as one of the teaching methodologies to expand the learning capabilities of the students. As part of experiential learning, in addition to traditional methods the Institution has adopted ICT based platforms, such as Virtual labs for physical and life sciences students; sharing of course and study material on mobile apps like 'ListZen', 'Teachmint' and 'Whatsapp'; student practical experiments via Simulation. Students of Life Sciences and Physical Sciences get hands on experience by performing in lab experiments, Students of Commerce, Computer Applications and Management learn application and programming software such as MS-Office, Tally, Tally with GST, C, C++, Oracle, JAVA, Python etc., in the computer labs.

S. No.	Tools Used	Pg. No.
1	Virtual labs	2
2	Course Material, Instructional Material shared via Mobile and Mobile Apps.	3-4
3	Course Material, Instructional Material shared via YouTube Lectures	5-6
4	Use of Social Media – YouTube Channels, Blogs etc.,	7-8
5	Simulation	9
6	Role Play as a Tool	9
7	Lab experiments in Life Sciences, Physical Sciences and Social Sciences.	10-58

#### Virtual Labs

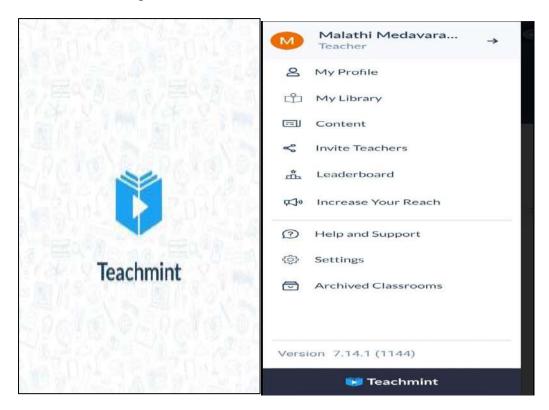
#### Experiment Name: To verify the truth tables of RS, JK, D, T flipflops



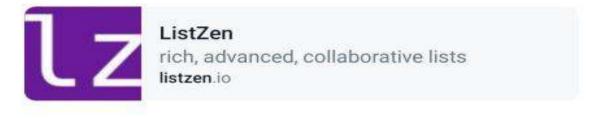


#### Course Material, Instructional Material shared via Mobile and Mobile Apps.

Teachmint is the Online app used to share teaching notes to students especially during COVID lockdown period.



ListZen is the Online app used to share teaching notes to students especially during COVID lockdown period.



MPCs 6thsem 2021-2022 You: Uploaded notes in Listzen.io and Teammint..please check

19/07/2021

Sample Online APPs used to identify specimens of animals and plants
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NAIDU VAN AMAHA VIDY INI OR WOMEN ACCORDING TO OBMANIA UNITAL AVA

pelow QR Code to know details about this an pelo is grown in Sarojini Naidu Vanita Meha which Vidyalaya Grounds.

S. No.	Department	Name of the APP
1	Dotony	QR Code Scanner - To identify Plants
2	Botany	Pl@ntNet - To identify Plants
3	Zoology	<u>QR TIGER – To identify animals</u>

#### GPS Map Camera



SARO

Please ac. Plant/Tree.

Hyderabad, Telangana, India 5/5/72/11, Hindi Nagar, Ghosha Mahal North, Nampally, Hyderabad, Telangana 500001, India Lat 17.384809° Long 78.468441° 03/08/23 12:00 PM GMT +05:30

#### Lectures shared by faculty to students through their YouTube Channels

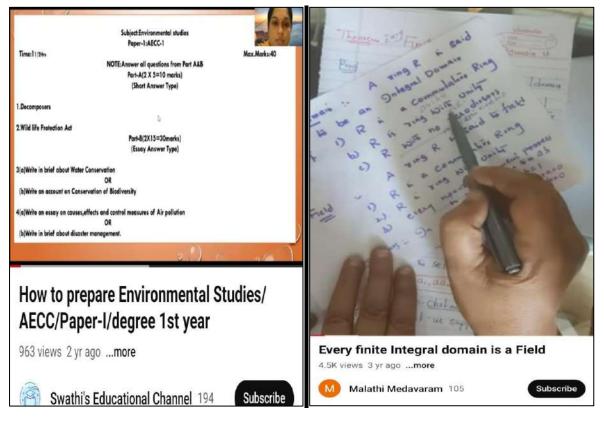
The Institution maintains a YouTube Channel to disseminate lectures on select topics, to live Stream the college events and bring in awareness about the college and events organised in the college.

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The following are some of the YouTube Channels and Links to Lectures created by the Faculty to share important concepts to students on YouTube

		YouTube Channels
S. No.	Department	Channel Name & Sample Link
1	Maths	https://youtu.be/ubPMb5QgBa8?si=6yGR5eP0RA-0QZlz
1	Widths	Channel Name: Malathi Medavaram
		https://youtu.be/9nv167rUEvo?si=26BbaDWMivAMHidF
2	Physics	Channel Name: @dbkreddy4451
		Anurada Budaraju- https://youtu.be/iLbDVaenhLc
3	Chamistry	https://youtu.be/HS-P3bQyfFg
5	Chemistry	Channel Name: @bachireddyvanaja6078
	Computer	@anirudhshukla3724
4	Computer Science	https://www.youtube.com/playlist?list=PLT5Xyv3mlSJcMqugAaMdh
	Science	c7HZ9lrN0thi

		https://www.youtube.com/playlist?list=PLT5Xyv3mlSJfpjm48HE_bD 6FYvEBigxM5
5		@kgeethasataram358 https://youtu.be/gw6txRJEHFs
6	Botany	https://youtu.be/IMH0v42cH84?si=FBs39CVQ5RWWNNvd Channel Name: Swathi's Educational Channel

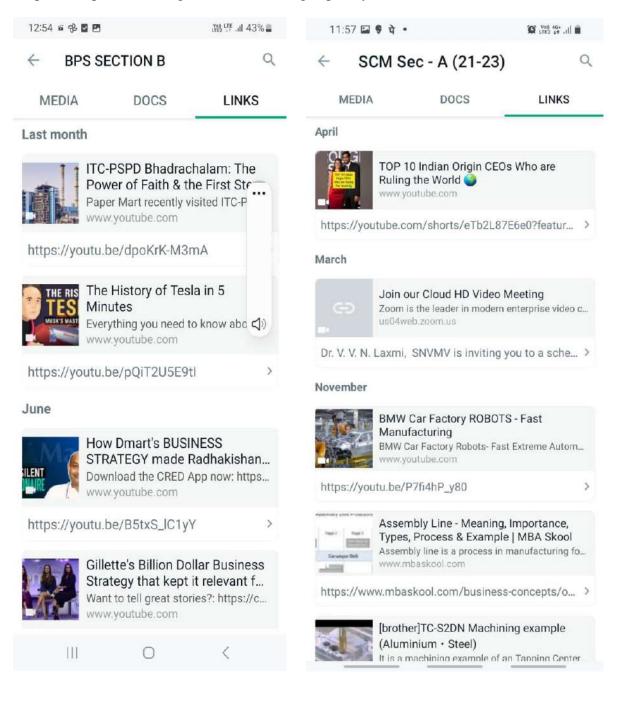




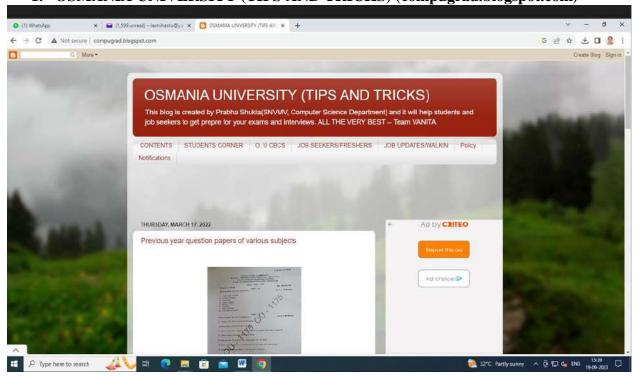
#### Use of Social Media – YouTube Channels, Blogs etc.,

#### Youtube Links shared to students thorugh Whatsapp Groups

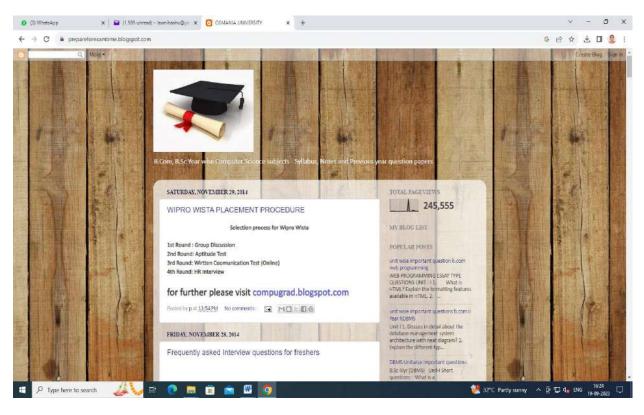
Youtube links and other e-resources are shared to students to get better understanding of the concepts discussed in the classroom. The audio visual content will enable students to visualise and understand the implementation of many procedures learned as tehory in the classroom. During online classes various audio video files are played to students so that the concepts and processes taught in the class are grasped by them.



#### Blogs: 1. OSMANIA UNIVERSITY (TIPS AND TRICKS) (compugrad.blogspot.com)

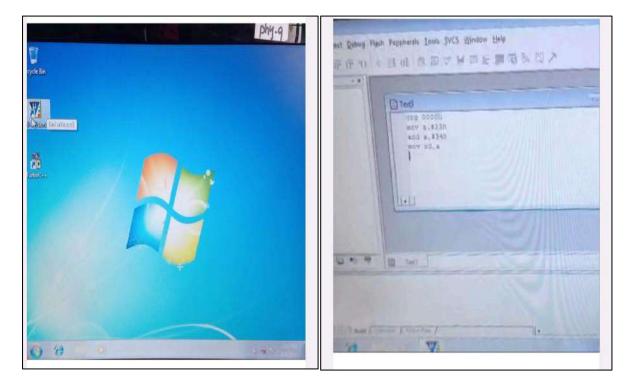


#### 2. OSMANIA UNIVERSITY (prepareforexamtime.blogspot.com)



#### Simulation

Department of Physics uses keil software to do simulation lab for M.Sc., final year students.



#### **Role Play as a tool**

Students perform role play on different perspectives of a situation. This will encourage them in critical thinking and engage them into the aspects of analysing a situation, describing a situation and concluding on any identified task or situation.



#### Lab experiments in Life Sciences, Physical Sciences and Social Sciences

M.Sc., first Year student performing Kinetic Experiment in Physical Chemistry Lab. MBA students of first year doing Programs in Computer Lab.



Staff and Students of Botany in the Cytomol Lab.

Staff and Students of Applied Nutrition in the Nutrition Lab.



Lab Experiments performed by Faculty and Students of Zoology Department





PG Zoology Students were taken to **GENETICS LABS** in **VASAVI HOSPITALS** for immunological practical workshop on 9<sup>th</sup> December, 2018.





# Name: Pavani Amgothu Register No.: 1175-22-945Class: Degre 1 yr Exam No.:

College: Soriejini Maidu Vanitha Mahavidhyalaya.

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Year 20. 2.2. / 20. 2.3.

No of practicals certified ..... in the

Subject of ..... Chemistry:

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Signature of Lociane.

# Head of the Department

## Principal

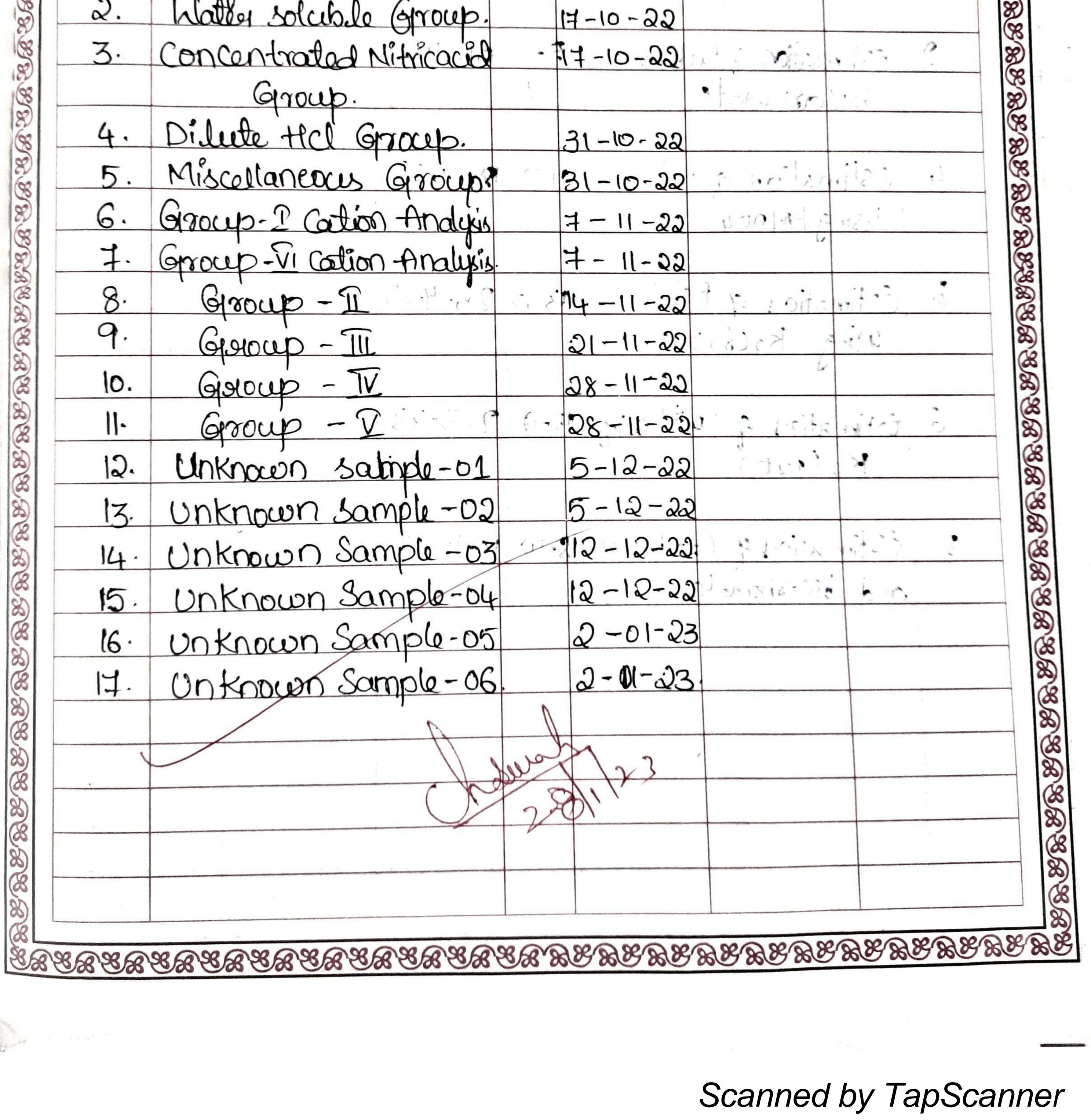


College Stamp

### (N.B. : The candidate is expected to retain his / her journal till he / she passed in the subject.)

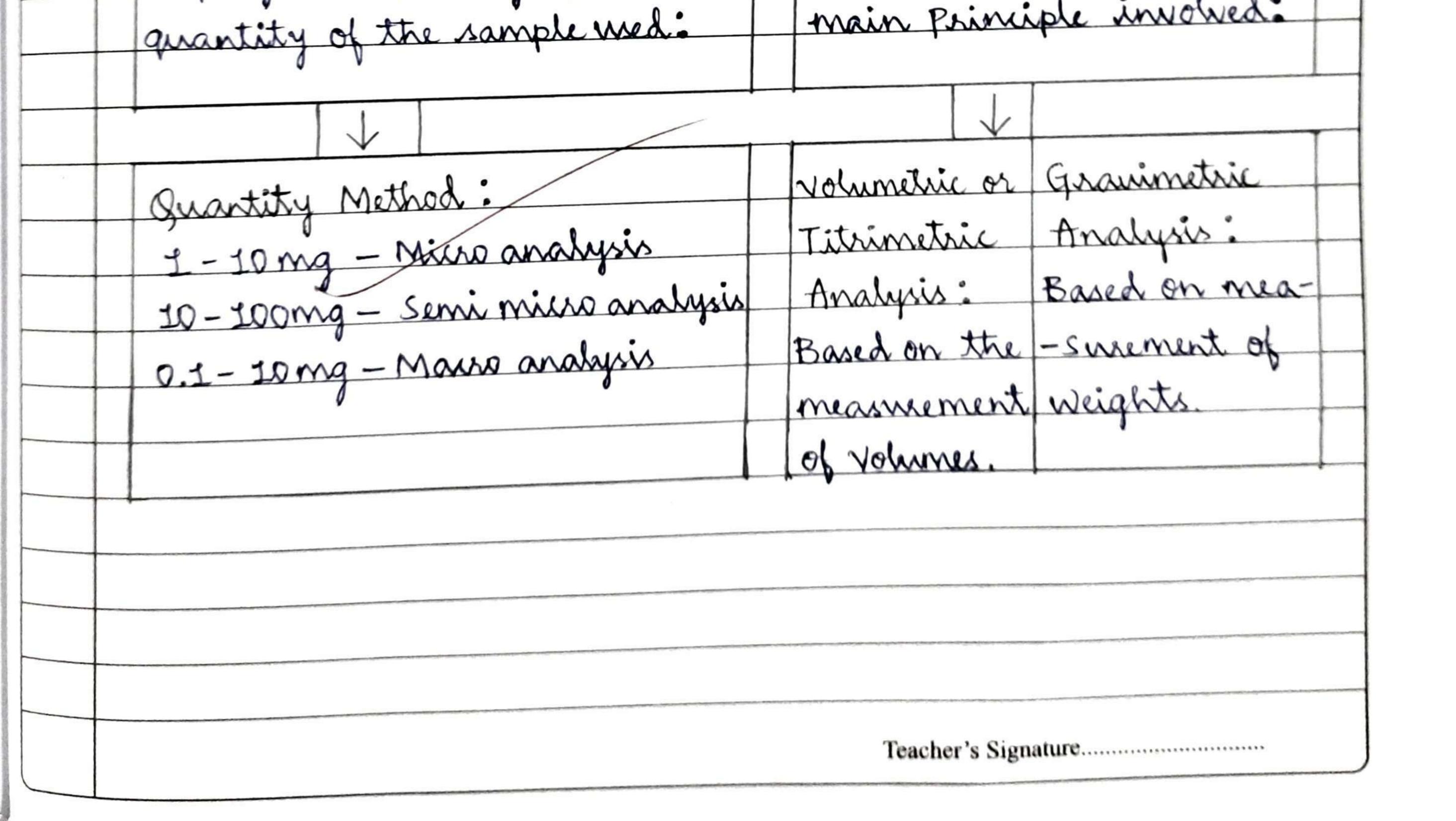


Expt. No.	Name of the Experiment	Page No.	Date of Experiment	Date of Submission	Initial
1.	Introduction of semimico		10-10-22		11 15
	Analysis and classificatio				
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	Date
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INORGANIC QUALITATIVE AN	ALYSIS
Chemical analysis is a process in which the che -tion of a the substance is determined. Broadle	

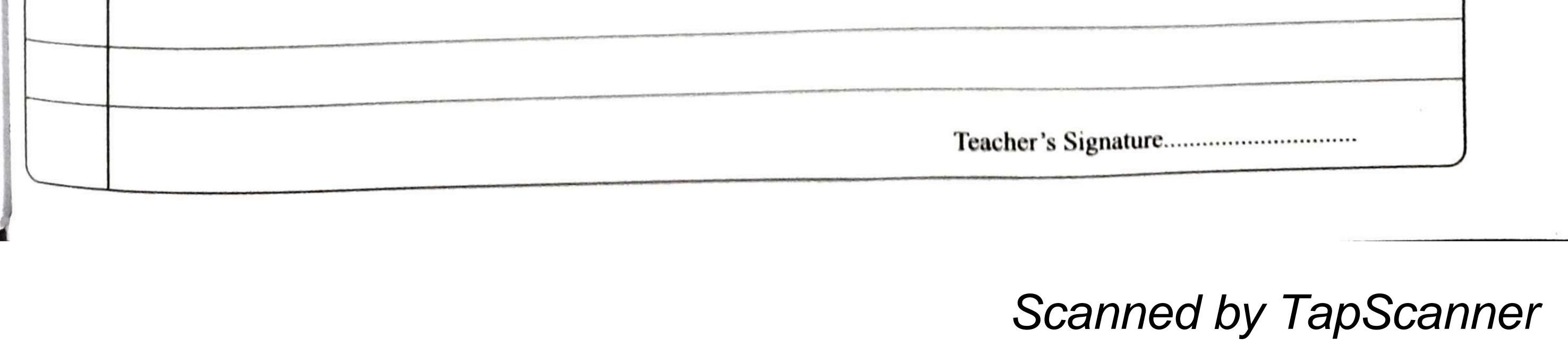
of two Braches: guantitative Analysis: Qualitative Analysis: The determination of the Identification of the constituents amounts of the contituents da substance er of a mixture of a chemical substance. and the underlying chemical Principles. The following are the bra-The following are the techniques -nches on the basis of the employed depending upon the main Principle involved:

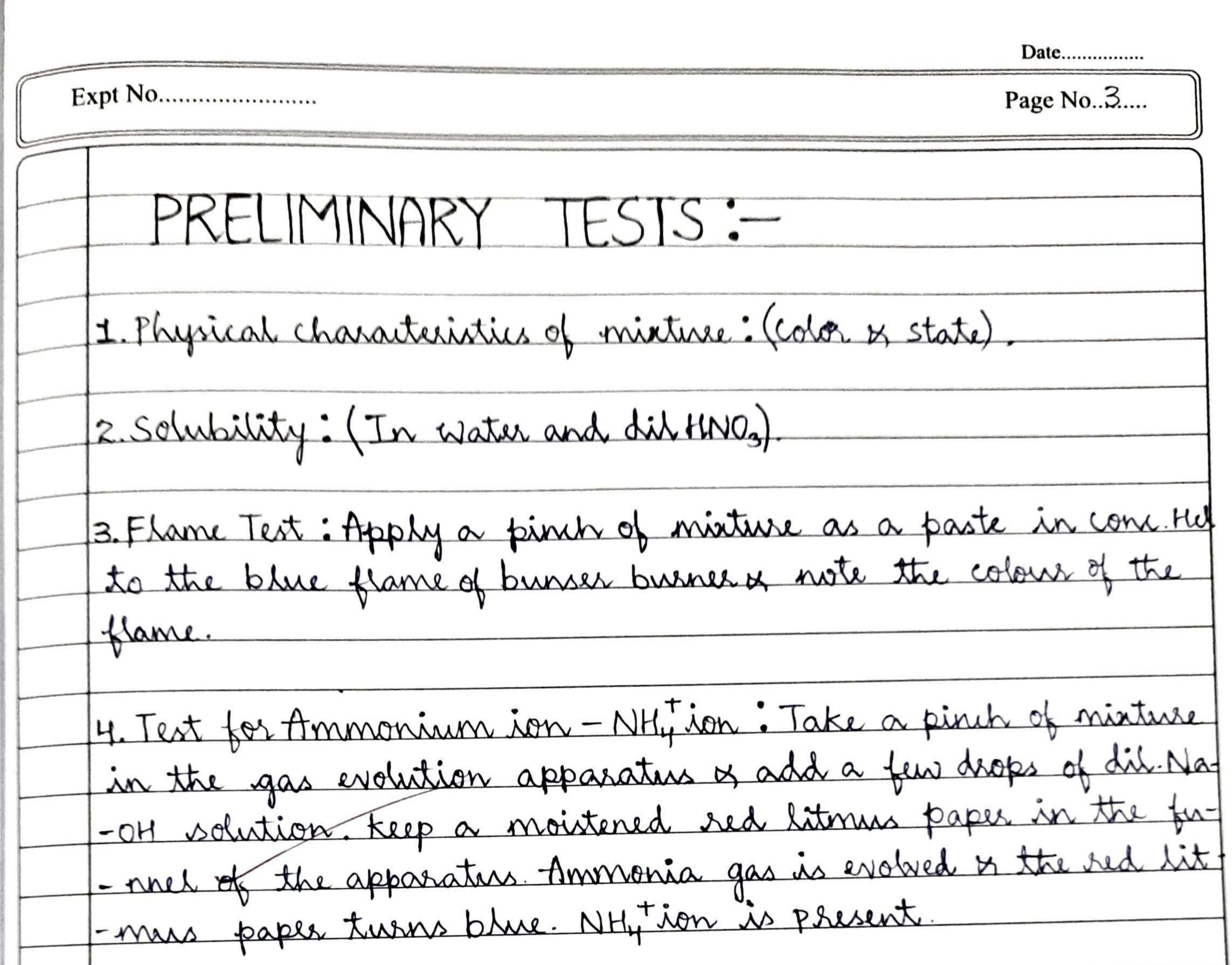




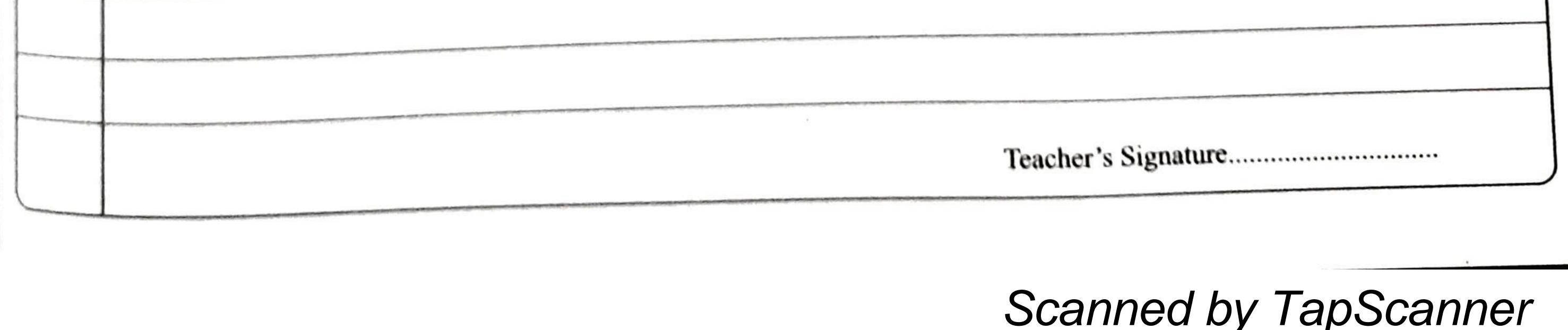
Expt No	Page No?
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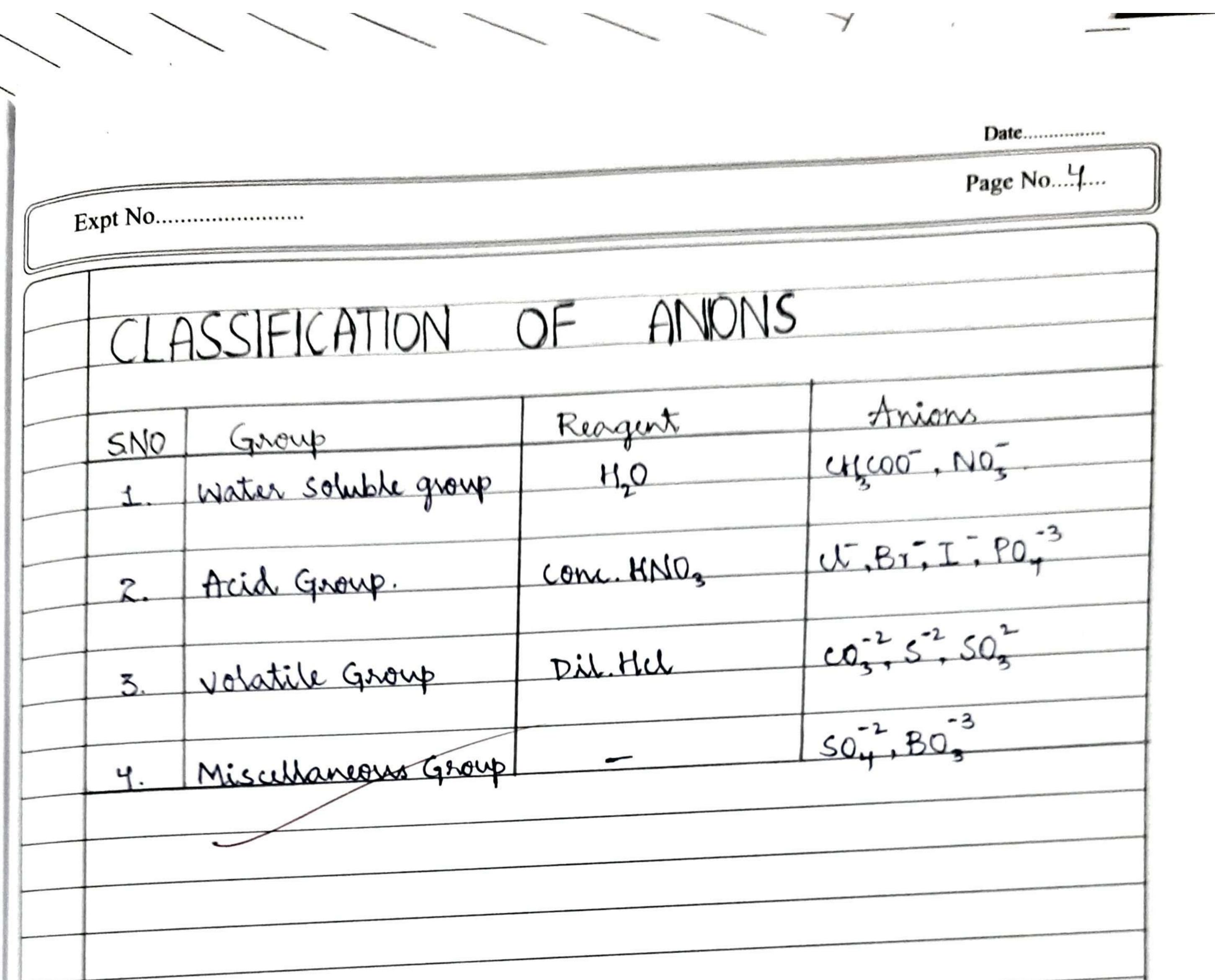
ions (Anions), are used to seperate a mixture into surrenively Smaller groups of ions, until some characteristic reaction may be used to confirm the presence of each specific ion using a s--mall amount of the substance. Advantages of Semi micro analysis: I. Time consumed for the analysis is less. 2. Mixture analysis upto à maximum of 6 ions can be done e--asily. 3. Amount of substance sequired for analysis is very less. 4. Reagents required are also very less. 5. Results are dependable.



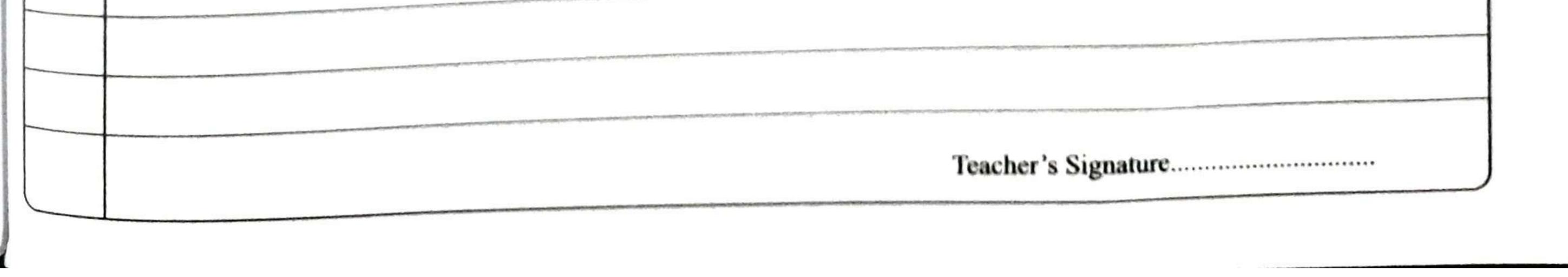


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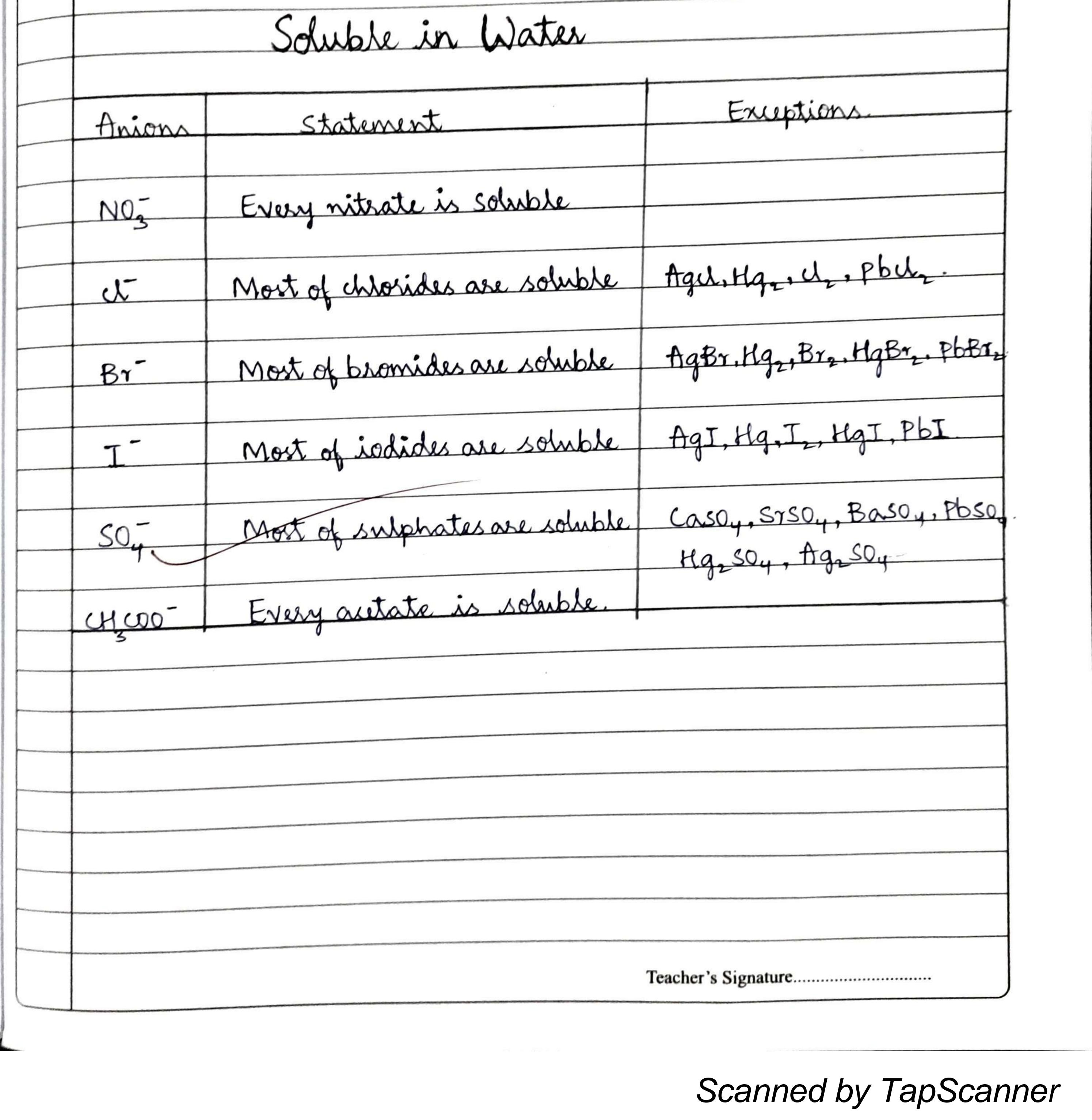


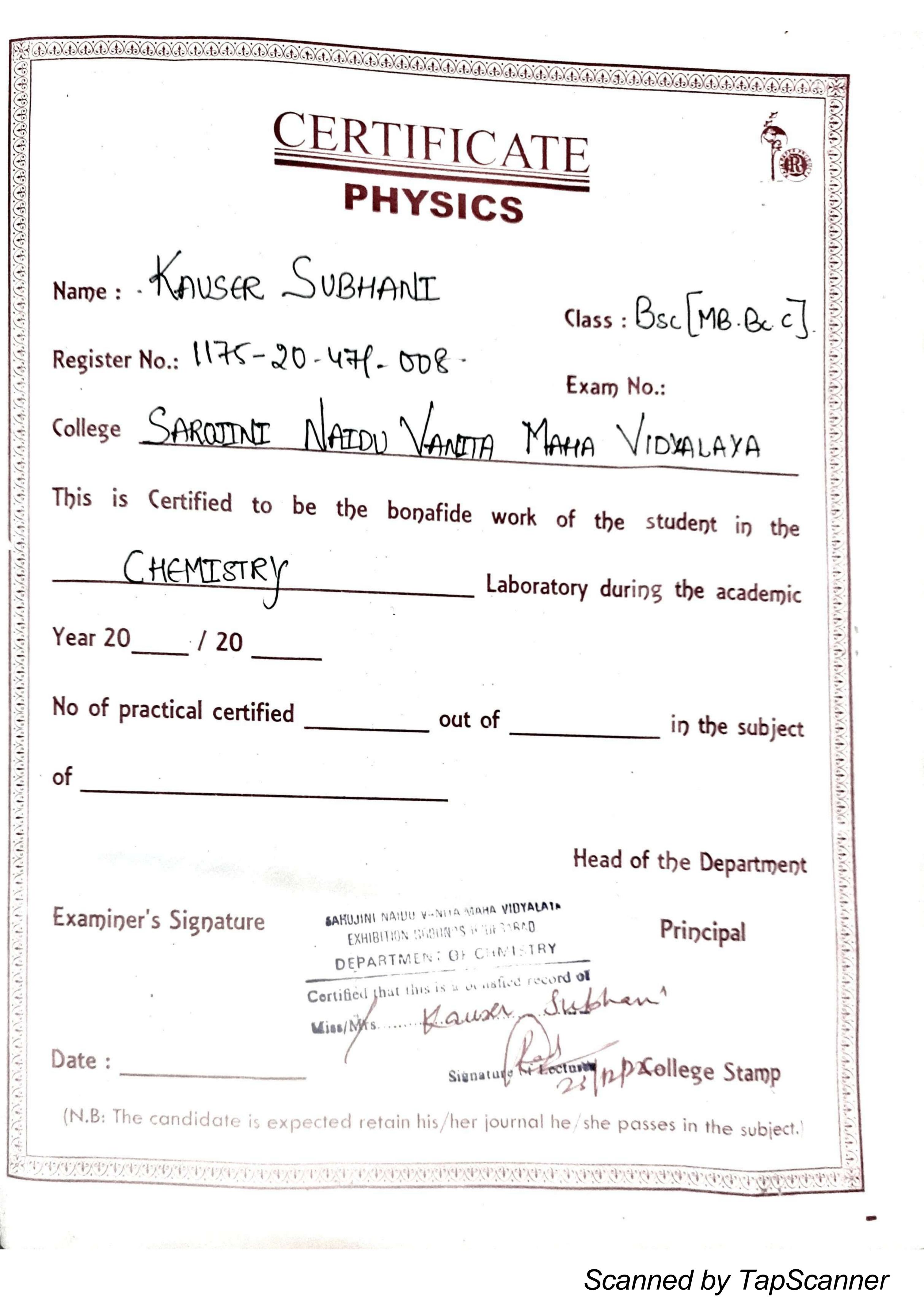
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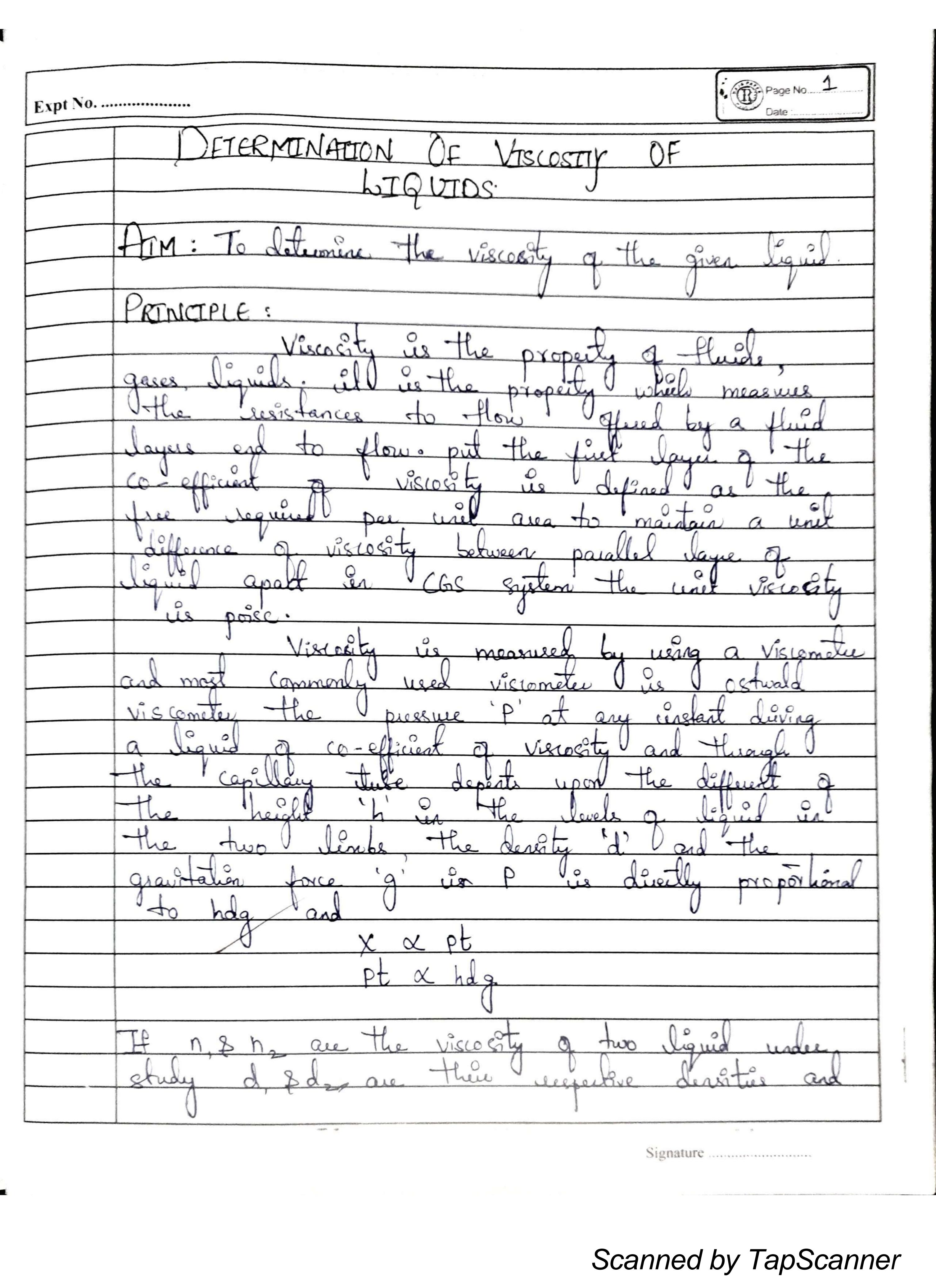




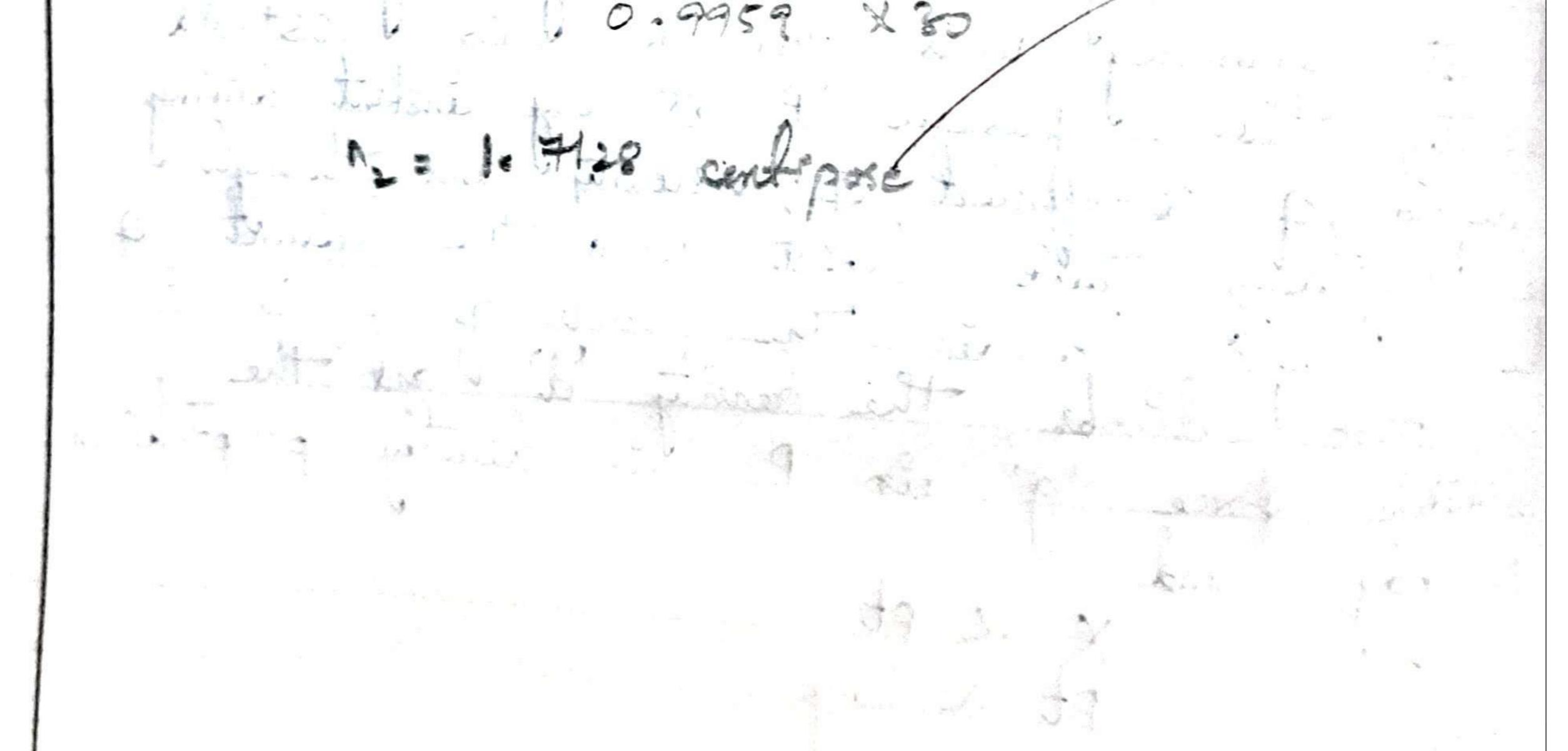
Date..... Page No..5.... Expt No..... For the analysis, one of the most important properties of comp--ounds is their solubility. The water - solubility of the most common inorganic salts is tabulated below.



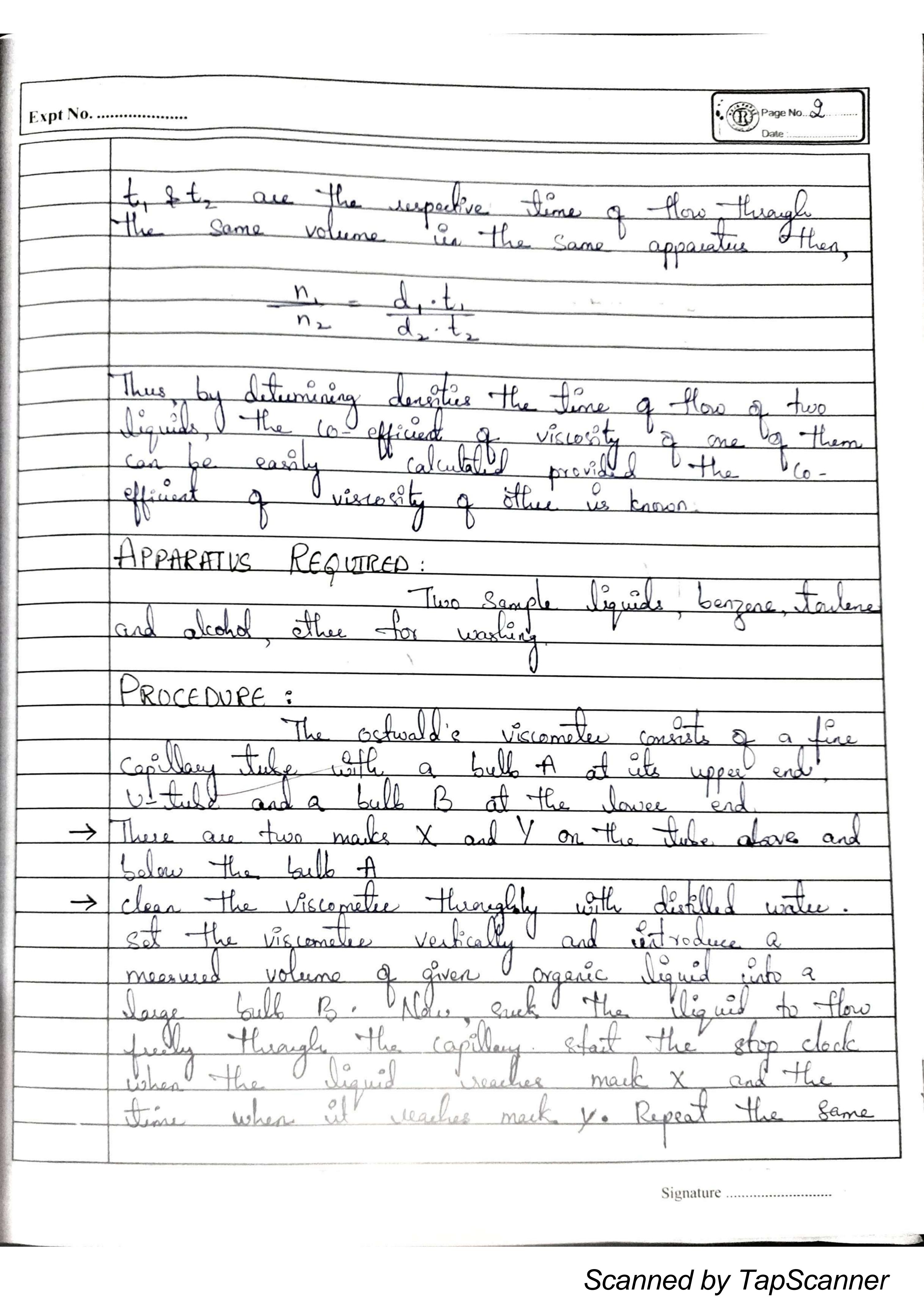


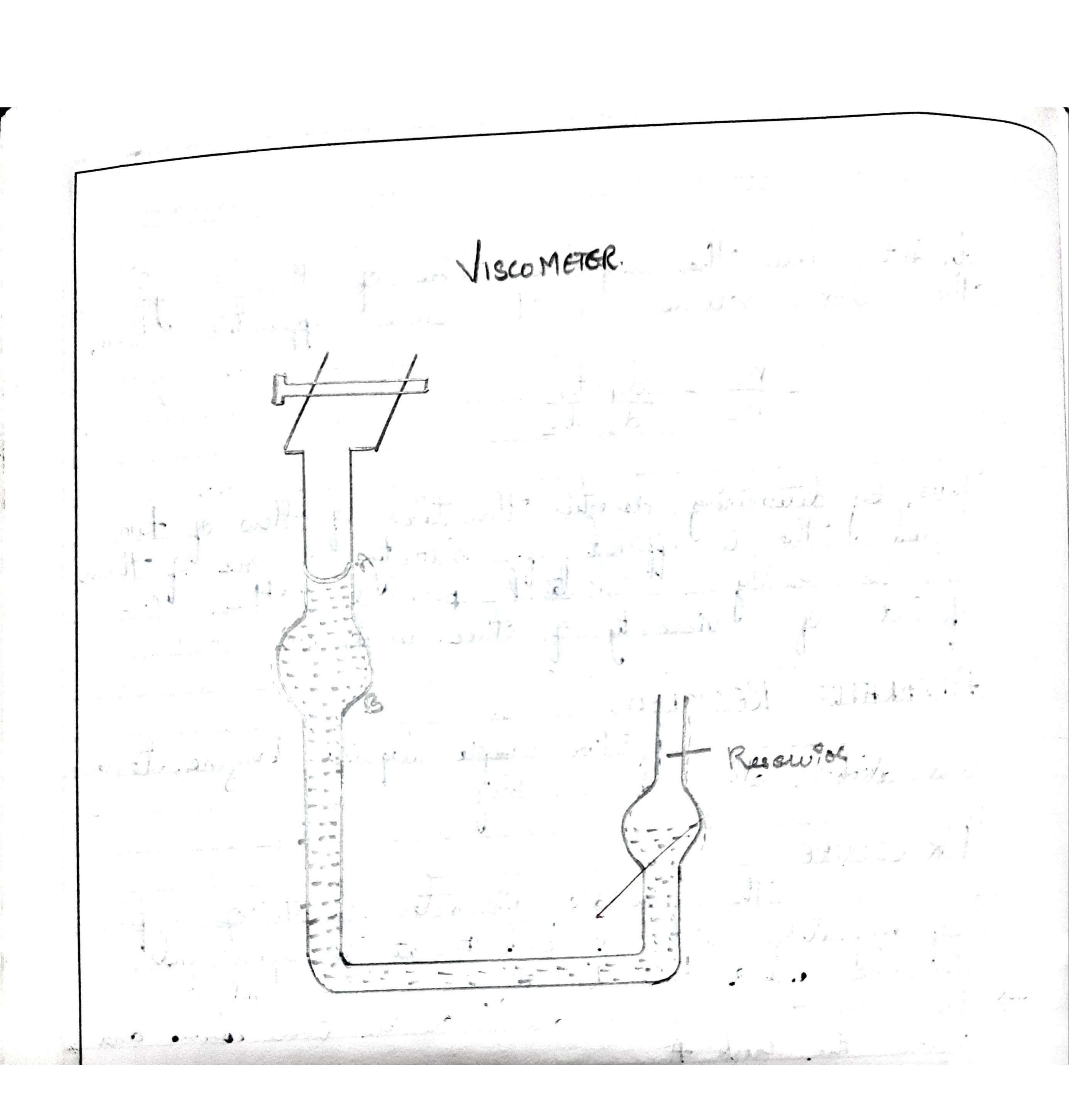


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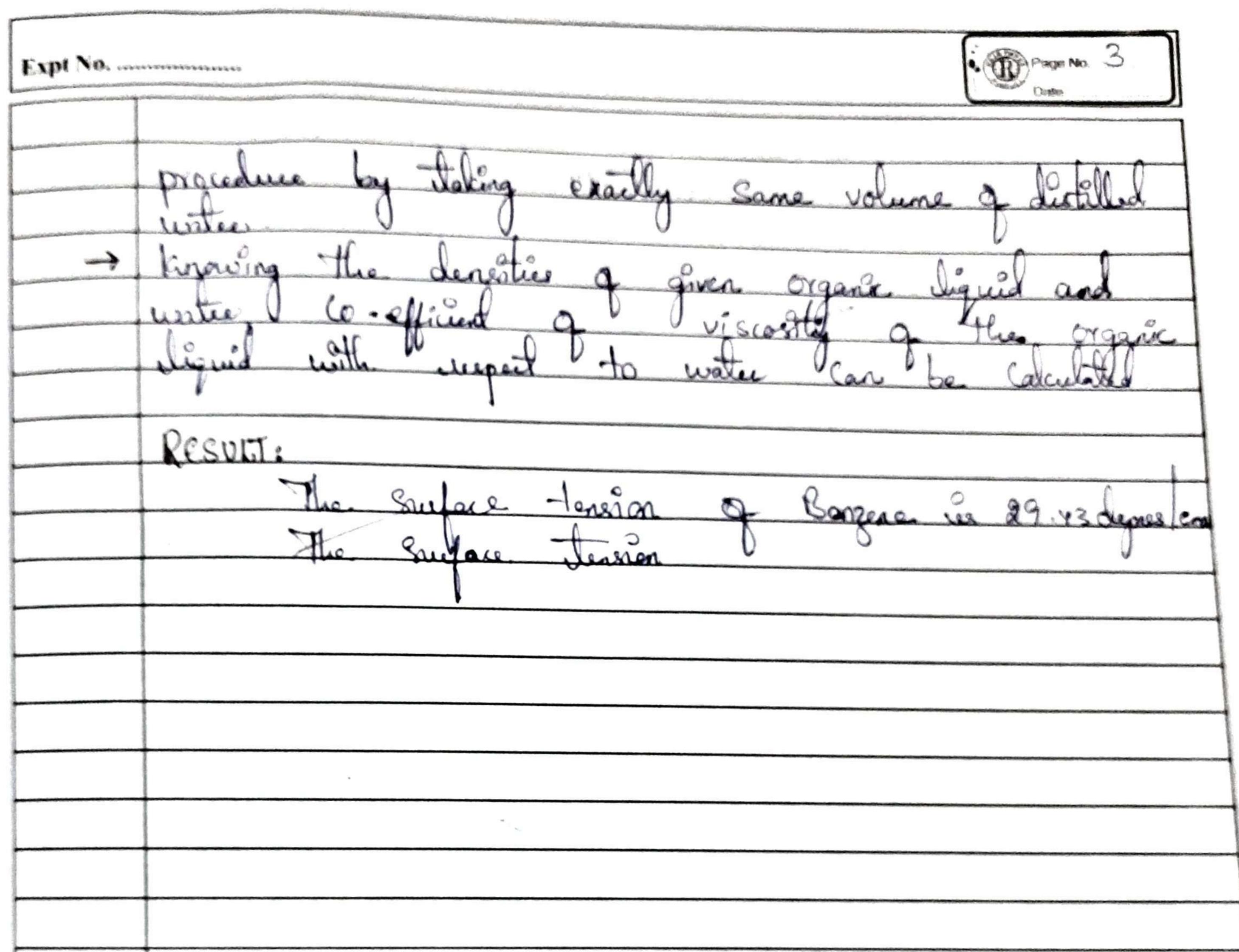












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### B.Com Students working on GST in the Computer Lab



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💽 GPS Map Camera



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# B.Com Students working on E-Commerce in the Computer Lab

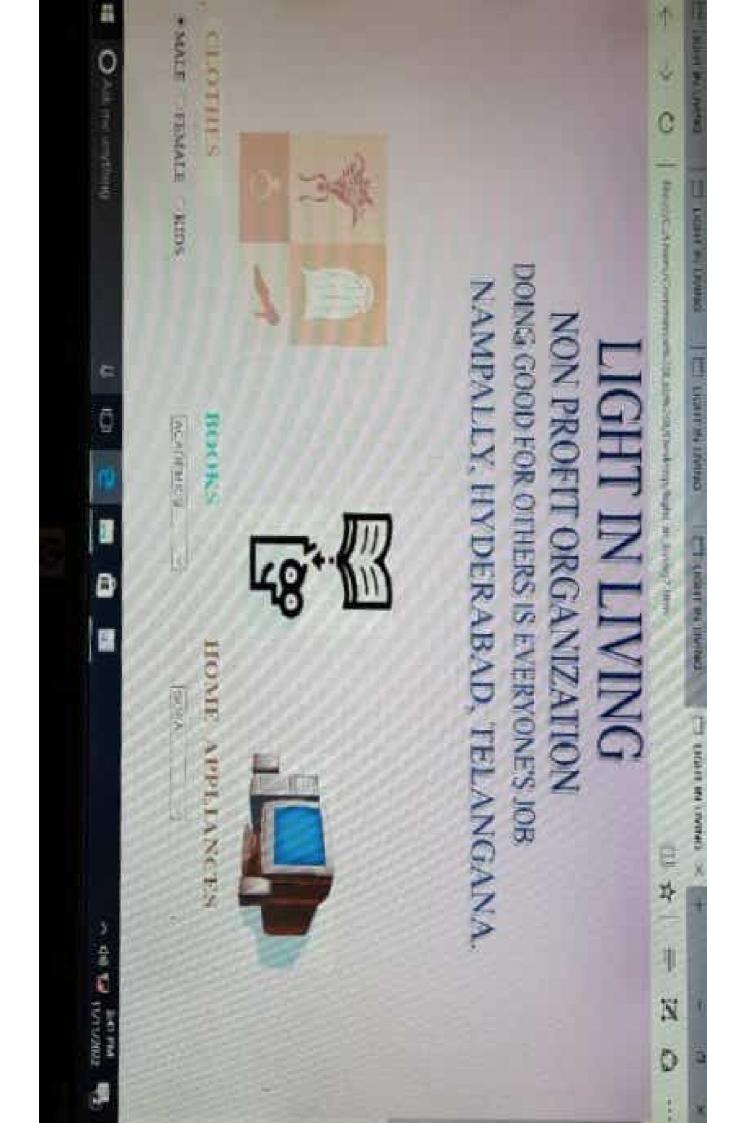


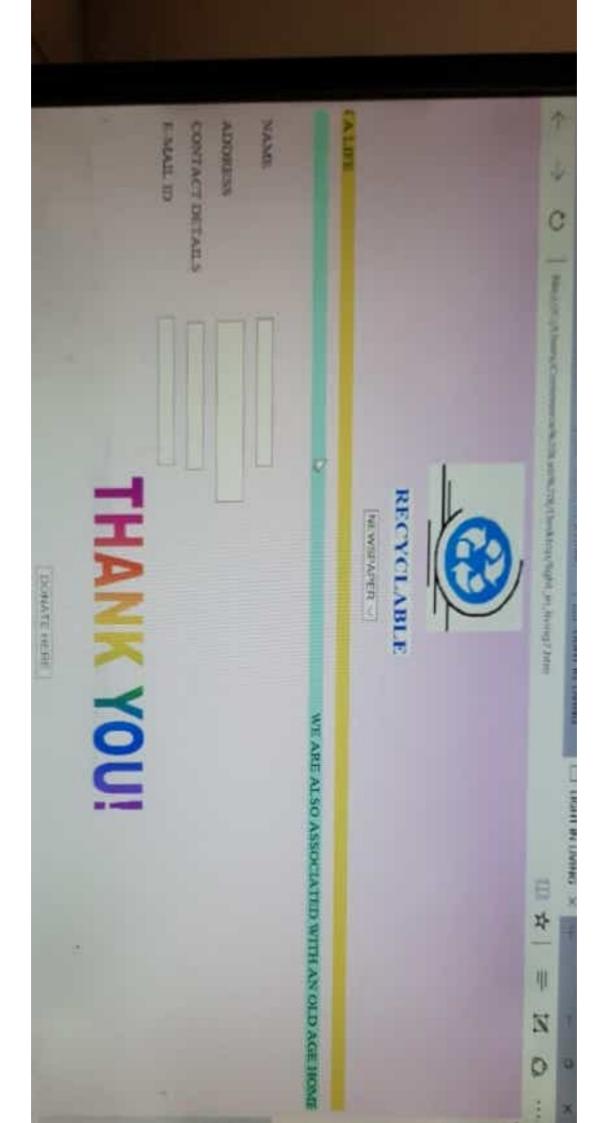
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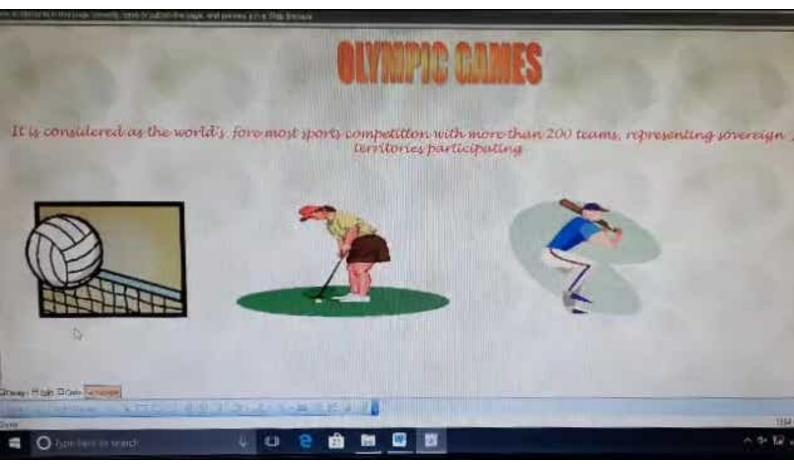
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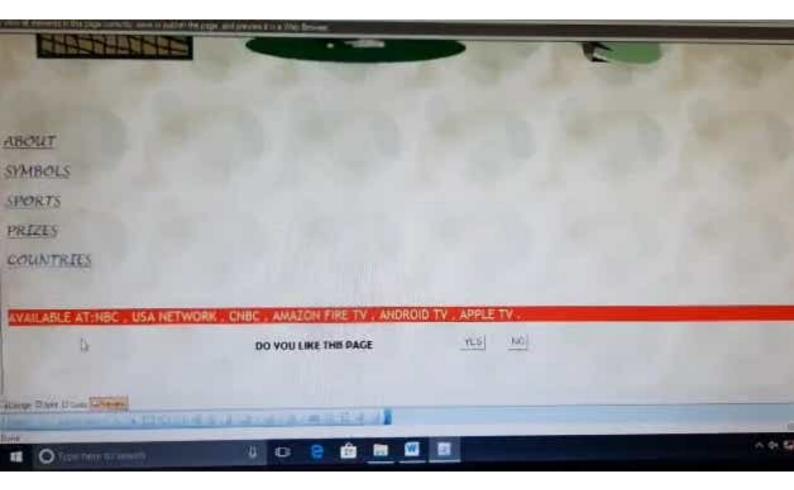
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# SYMBOLS

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The Olympic movement use symbol to represent the ideals embodied in Olympic charter This symbol is known as Olympic r consisting of 5 interwinged rings. The coloured version of the rings-blackpellow, black green & red over a white field, for Olympic flag.



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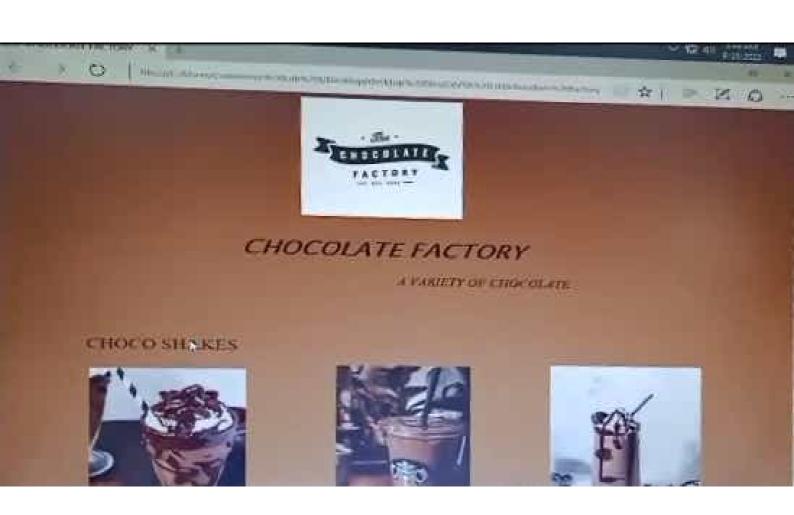
# SPORTS

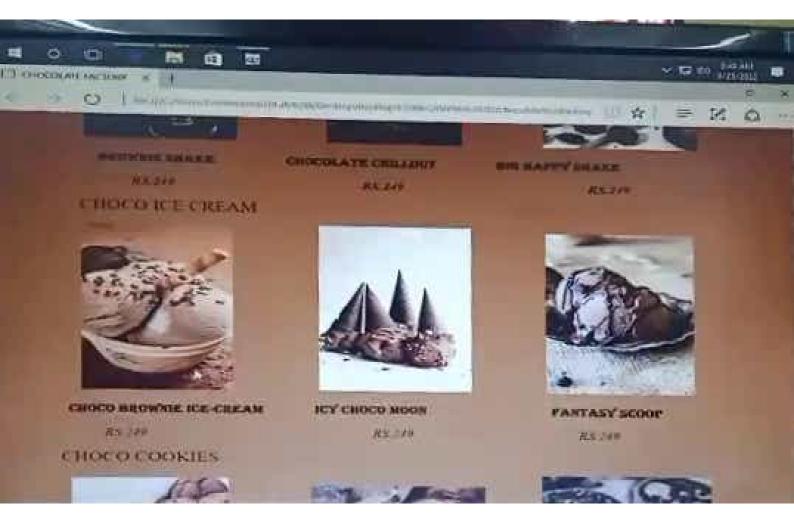
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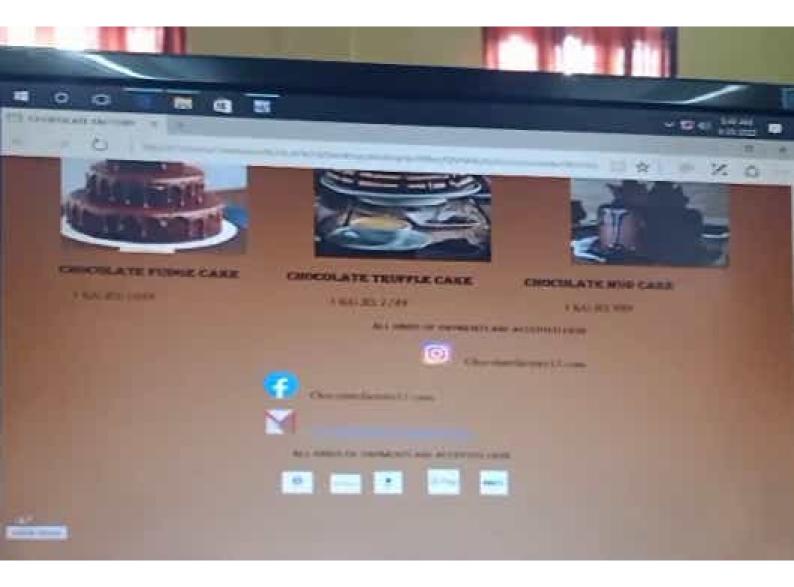
- It consists of 35 sports. 30 disciples & 408 events summer Olympics including 26 sports while winter olympics program features 15 sports
   Some of them are:

Summer Olympics sports	Winter Olympic sports
Archery	Alpine skiing
Atheletics	Bobsleigh
Radminton	Icehockey
Basketball	Ski jumping
Boxing	Speed skating
Cycling	Snow boarding
wrestling	Figure shaling

3

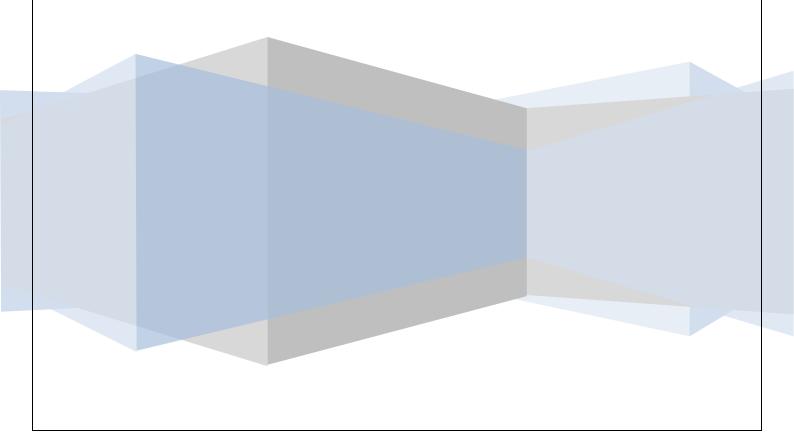






# SAROJINI NAIDU VANITA MAHA VIDYALAYA MBA ITAM LAB MANUAL

**DEPARTMENT OF BUSINESS MANAGEMENT** 



## MS – EXCEL

1. Prepare a table use Ms excel for MBA 1 year I semester marks with additional fields of total marks, percentage of marks and division of marks

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235809672163	Jagan	42	32	65	42	52	63	46				
235809672164	Manjula	56	45	63	20	56	45	32				
235809672165	Shravanthi	62	62	56	78	32	52	36				
235809672166	Mahender	78	78	65	23	25	78	63				
235809672167	Satish	65	32	36	63	45	44	64				
235809672168	Kishore	19	42	74	21	36	63	65				
235809672169	Bala Krishna	65	22	64	23	65	45	22				
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### **MBA I YEAR I SEMESTER RESULTS**

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6	Suresh	35	42	55	65		41	20	5	6	314	44.86	FAIL	8
7	Jagan	42	32	65	42		52	63	4	6	342	48.86	PASS	5
8	Manjula	56	45	63	20		56	45	3	2	317	45.29	FAIL	7
9	Shravanthi	62	62	56	78		32	52	3	6	378	54.00	PASS	3
10	Mahender	78	78	65	23		25	78	6	3	410	58.57	PASS	2
11	Satish	65	32	36	63		45	44	6	i4	349	49.86	PASS	4
12	Kishore	19	42	74	21		36	63	6	5	320	45.71	FAIL	6
13	Bala Krishna	65	22	64	23		65	45	2	2	306	43.71	PASS	9
14	Ramu	32	12	54	65		38	36	4	6	283	40.43	FAIL	10
15						_								
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21	Sheet1	Sheet2 / Sh	eet3 🖉	,						14		- III	-	
ead										LA H	1		118% (=)	1

#### Formulas

- 1. Total Marks(J5) =SUM(C5:I5)
- 2. Percentage(K5) =AVERAGE(J5/7)
- 3. Result(L5) =IF(OR(C5<22,D5<22,E5<22,F5<22,G5<22,H5<22,I5<22),"FAIL","PASS")
- 4. Rank (M5) =RANK(K5,K5:K14)

Emp No	Emp Name	Basic	Ta	Da	Hra	Gross Pay	It	Pf	Net Pay
1	Ajay	14500							
2	Suresh	14900							
3	Manjula	13500							
4	Shravanthi	8500							
5	Mahender	9000							
6	Satish	13500							
7	Kishore	12000							
8	Bala Krishna	8500							
9	Ramu	9000							
10	Ganesh	10500							

### 2. Create a Employee Salary Ms excel worksheet

Perform the calculation as follows

- 1. TA=8%
- 2. DA=6%
- 3. HRA=10.5
- 4. PF=11.7
- 5. IT=8%

Gross pay= Basic+Ta+Da+Hra Net Pay= Gross Pay- Pf- It.

1000	ert Page Layout	Formulas	Data Review	v View			in the second		
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E11		= SUM((C11*6)	/100)						
A	В	С	D	E	F	G	Н	1	J
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- 1. TA = SUM((C4\*8)/100)
- 2. DA = SUM((C4\*6)/100)
- 3. HRA = SUM((C4\*10.5)/100)
- 4. PF = SUM((C4\*11.7)/100)
- 5. GROSS PAY =SUM(C4+D4+E4+F4)
- 6. IT = SUM((C4\*8)/100)
- 7. NETPAY = SUM(H4-G4-I4)

SNO	Sector	Rs. In Lakhs					
		2007-2008	2008-2009				
1	Agriculture	10,955	19,913				
2	Rural Development	32,612	23,151				
3	Irrigation	68,951	79,623				
4	Energy	82,719	58,521				
5	Social Services	63,512	100,232				
	Total	258,749	281,440				

#### 3. illustration of Column chart using Ms excel

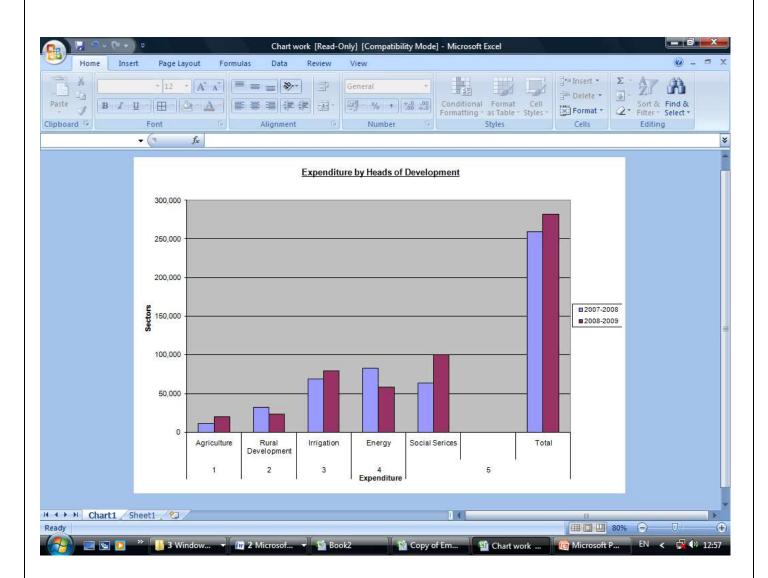
#### **Creating a Bar Chart**

1. Enter the above Data into Spreadsheet

			,		
	Α	В	С	D	E
1	SNO	Sector	Rs. In Lak	ths	
2			2007-2008	2008-2009	
3	1	Agriculture	10,955	19,913	
4	2	Rural Development	32,612	23,151	
5	3	Irrigation	68,951	79,623	
6	4	Energy	82,719	58,521	
7	5	Social Serices	63,512	100,232	
8					
9		Total	258,749	281,440	
10					

- 2. Select The Cells A3 to D9
- 3. Click on Insert menu and Click Chart Option.
- 4. Follow the Instructions in Each Step of The Wizard
- 5. At Step 3 Specify the Chart Title, X-Axis Title, Y-Axis Title Separately
- 6. At Step 4, Click as Object in Sheet1, Then Click Finish

7. Your Chart is now finished. Save, your chart is saved with the spreadsheet. This type of chart is known as an embedded chart and is saved with its worksheet.



#### 4. Illustration of Pie chart using Ms Excel

Following Data Relate to the Expenditure of two families per Month

Item	Family A	Family B
Food	160	60
Clothing	100	30
Education	80	50
Other	80	30
Total	420	170

#### Represent the Data by a Pie Diagram

Calculation for Constructing Pie Diagram

	J5	• (•	f <sub>x</sub>		^			-	
	А	В	С	D	E	F	G	Н	I
1			Family A		Family B				
2	Food	160	137.1429	60	127.0588				
3	Clothing	100	85.71429	30	63.52941				
4	Education	80	68.57143	50	105.8824				
5	Others	80	68.57143	30	63.52941				
6		420	360	170	360				
7									
8									
9		Fami	Iy A			Family	′ B		
10									
11			Food				Food		
12			Clothi	ng			Clothin	g	
13		Education					Educat	ion	
14			Other						
15				5			Others		
16									

C2=SUM (B2/B6\*360) C3=SUM (B3/B6\*360) C4= SUM (B4/B6\*360)

C5 =SUM (B5/B6\*360)

# **Student Centric Methods AQAR - 2.3.1**

- I. Experiential Learning
- II. Participative Learning
- III. Problem Solving

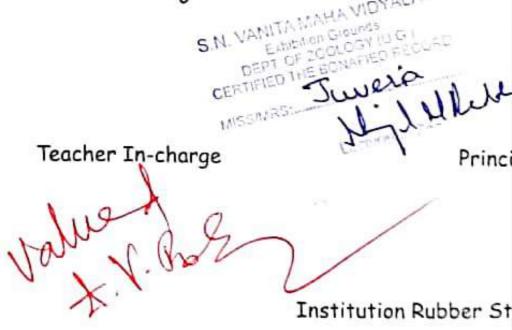
- I. Experiential Learning
  - A. Lab Experiments in
    - 1. Life sciences
    - 2. Physical sciences
    - 3. Commerce
    - 4. Business Management
    - 5. Virtual labs
    - 6. Youtube
    - 7. Instruction material shared via mobile apps, MOOCs
    - 8. Simulations

# Gentinicate

ne: TUVERIA SACEDA No.: 1175-21-526-022. Class: MSC-Z00(Ti).s) Exam No.: <u>4th Sem</u> titution: <u>Saugini Naidu Vanita Maha Vidyabya</u>

s is certified to be the bonafide work of the student <u>Animal biolechnology</u> Laboratory during the academ or 20.21./20.23.

miner's Signature



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(N.B: The candidate is expected to retain his/her journal till he/she passes in the subject.)

INDEX MAHA VIDYALAYA Righ Grounds GEPT OF ZOOLOGY (U.G.) CERTIFIED THE BOMAFIED RECORD MSSMRS: Juvenia Hil Uled DATE OF PAGE DATE OF NAME OF THE EXPERIMENT SIGNATURE NO. EXPERIMENT SUBMISSION Preparation of culture media-1-6 (a) Bacteria Methods of cultivation a) Bacteria 7-11 Isolation of Microrganisms 12-15 Determination of microbial 16-19 growthewww 20-22 Antibiotic sensitivity test 5. 6: Staining technique for microbes 23-26 a) Gram's staining b) Fungal stains Vield estimation in fermenta- 27-28 7) tions products. a) Locto bacillus acid and

cotton plug conial flask alture medium

Expt. No.: \_ L \_ \_

Page No.: 1\_\_\_\_

PREPARATION OF CULTURE MEDIA - (A) BACTERIA Microolganisms like all other living organisms require basic nutrients for the suring of life. The food material on which microoganisms are glown in the laboratory known as culture medium & the growth itself is called as a culture. In other words, the nutrient preparation on or in which a culture is grown in the laboratory is called as Some media contains solutions of inorganic salts & may be supplemented with one or mole olganic compounds while other media contain complex inglidients such as esetracts of animals tissue. These inglidients excepts for again are used to prepare both (or liquid media. Agar which liquidifies e heating to 96°C & hardens into a jelly on cooling 4045°C is used to solid BACTERILOGICAL MEDIA-PEPTONE WATER-PRINCIPLE-They are simple media that suffort the geouth of microbes that doesnot have special nutritional requirement. Peptone present in the media that supplies nitrogen for growing microbes & also provides carbohydrates. Meat estract provide organisms with the further supply of eson growth factors like nucleic acid fractions, minerals & withamins.

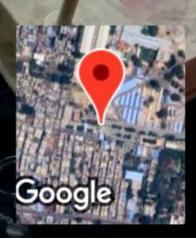
Materials léquired- Peptone-100 gms Nacl-5gms

Teacher's Signature:

PROCEDURE I group peptone is meighed & dissolved in 100 ml of distilled mater. To this 0.5 group of Nacl is added. The pH is adjusted to 7.2=7.4. It is then plugged & autoclaud at 65°C, 15 lbs I Nutwent both - (for general bacterial cultivation) Material required peptone - 5gms Nacl - 5 gms Beef extract - 3 gms distilled HD - 1000 ml PH - 7.2-7.5 PROCEDURE peptone, Nacl & meat extract are meighed & then but into a beaker. Hot mater used to dissolved the above guien mixture in the backer, since peptone is insoluble in cold water. PM is adjusted to 6-8-7-2 phosphate are precipitate out & should be extracted by filtration. This prepared both is immediately transferred into a clean conical flask which is later pluged with cotton 2 then covered with paper a fied with help of twine to present the plug flom getting we The flask is kept in an autoclave for sterilization at 120°C, 15 los for 20 min. Teacher's Signature:

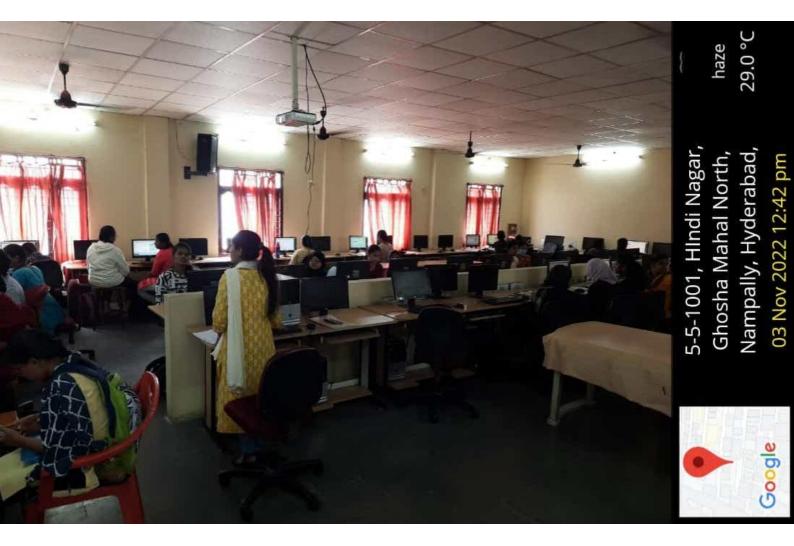
Nutrient agay (for cultivation of bactoria) raterial required-Peptore - 5 gms Nach- 5 gms Beef esetract - 3 gms Agar agar - 15 gms dis Ho- 100ml RINKIPLE gar is long chain polysaucharides substance extracted from a seawerd. I forms a firm gel at a concentration of 2. p agar alone has no itruture property. It melts at about 75°C & solidifies only when it is DCEDURE gens of peptone, 3gen of beef extract, 5 gens of Naclare taken dissolved in 100 ml of dis. H20. PH is adjusted to 7-7.2 15 gens of agar is added. It is dissolved by bailing. If recessary is filled fortered, plugged & autochuech uprological saline- (also continely called as saline) aterial required-acl - 0.85 g istilled water - 100 ml

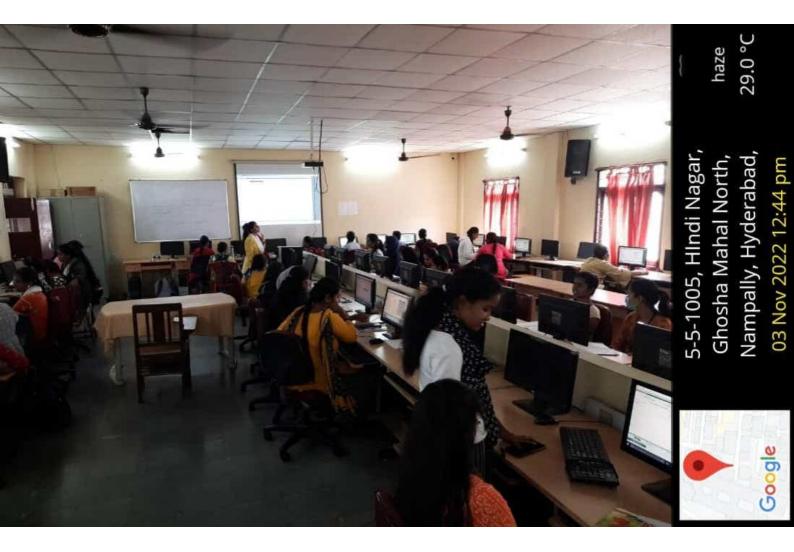
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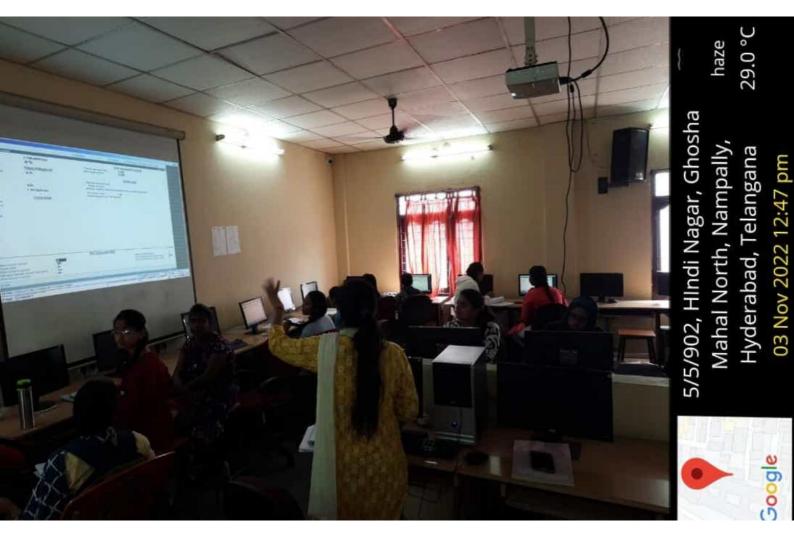


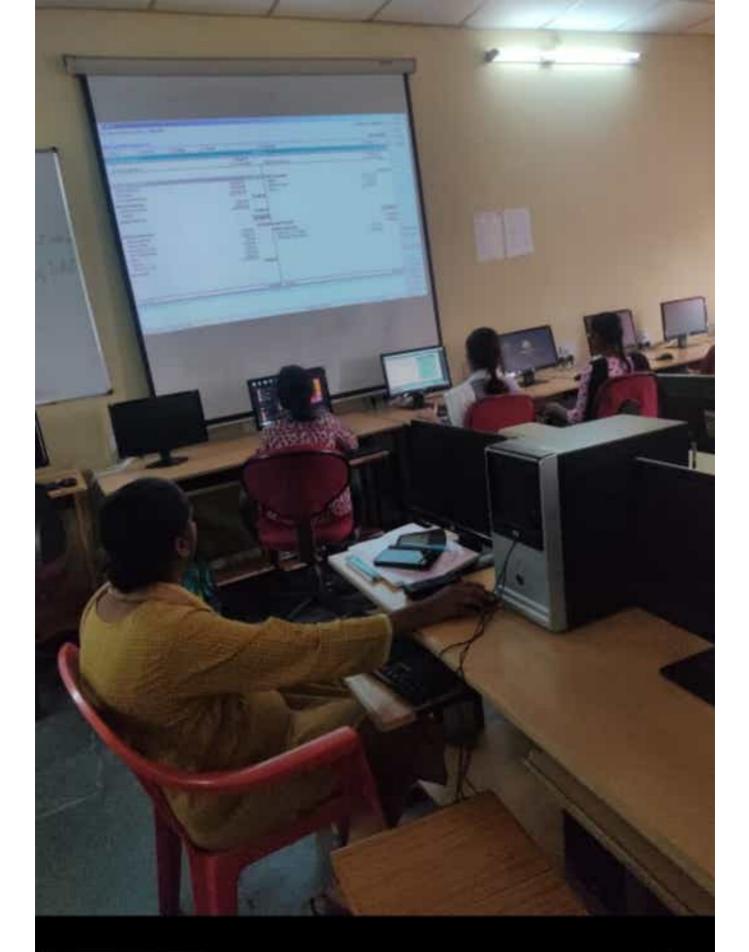
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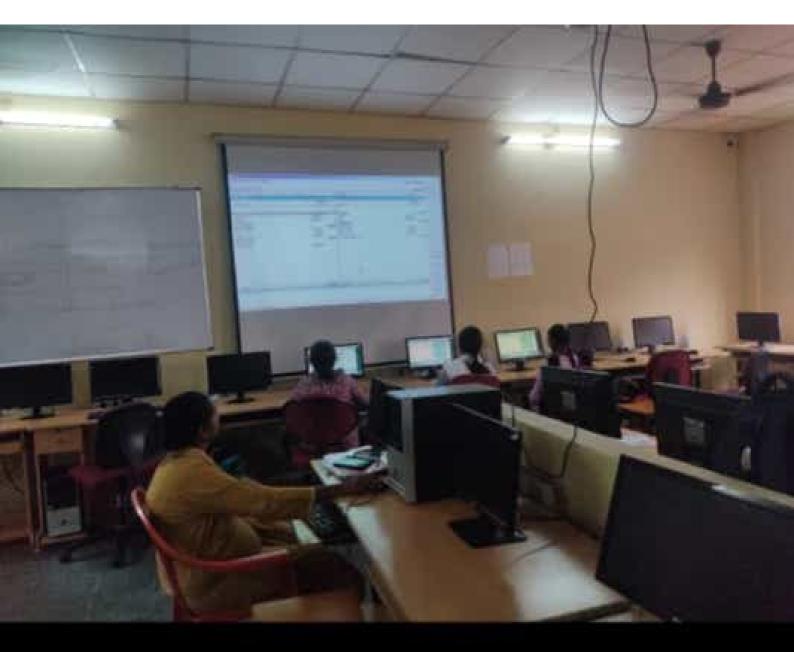




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scattered clouds 28.0 °C





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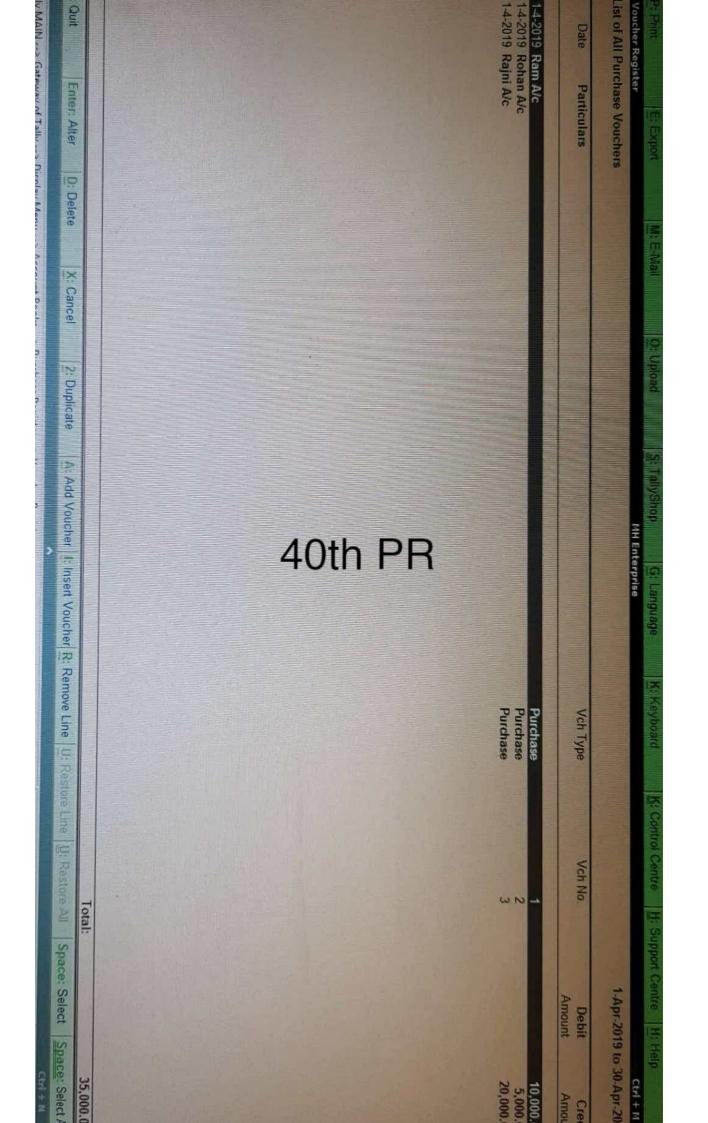
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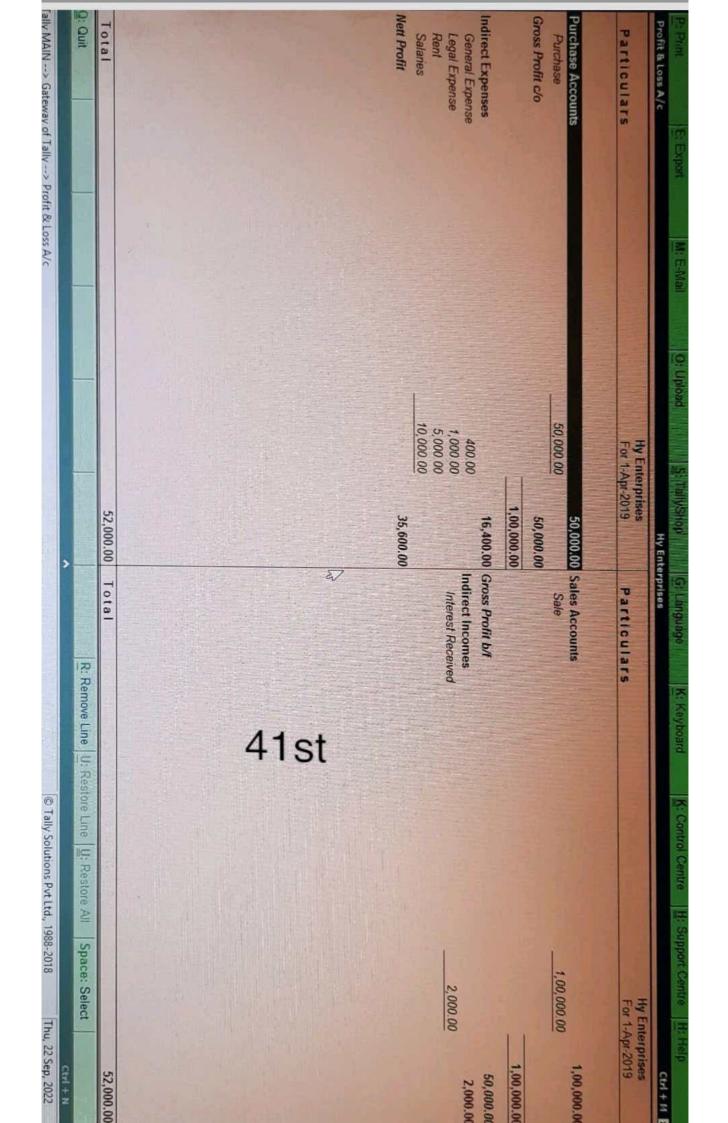
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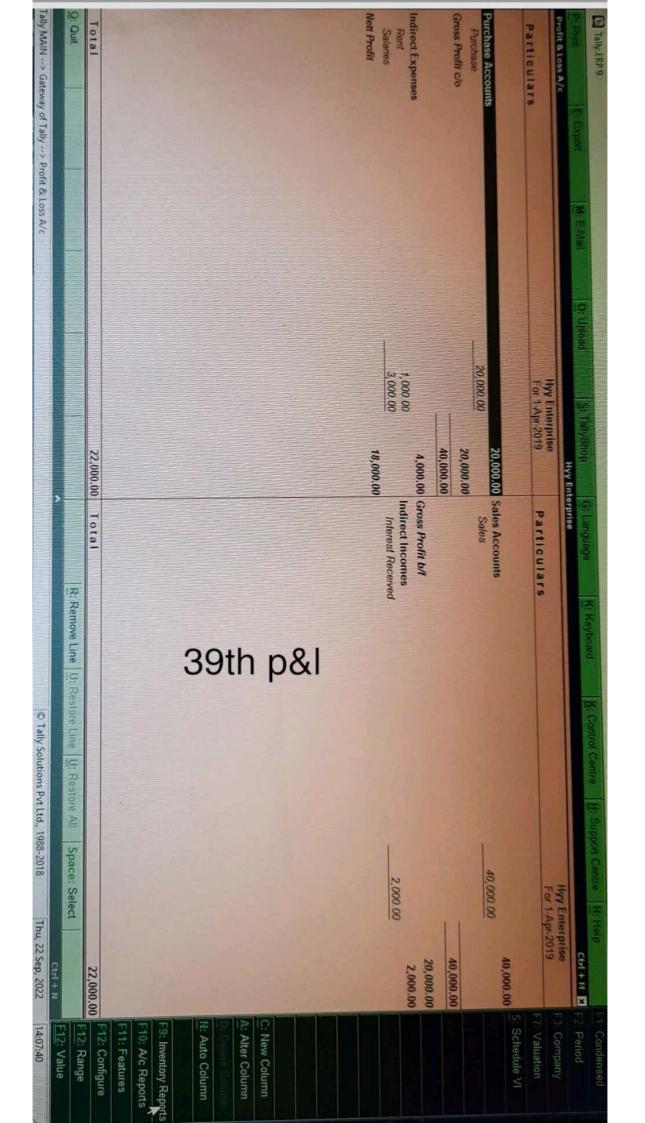
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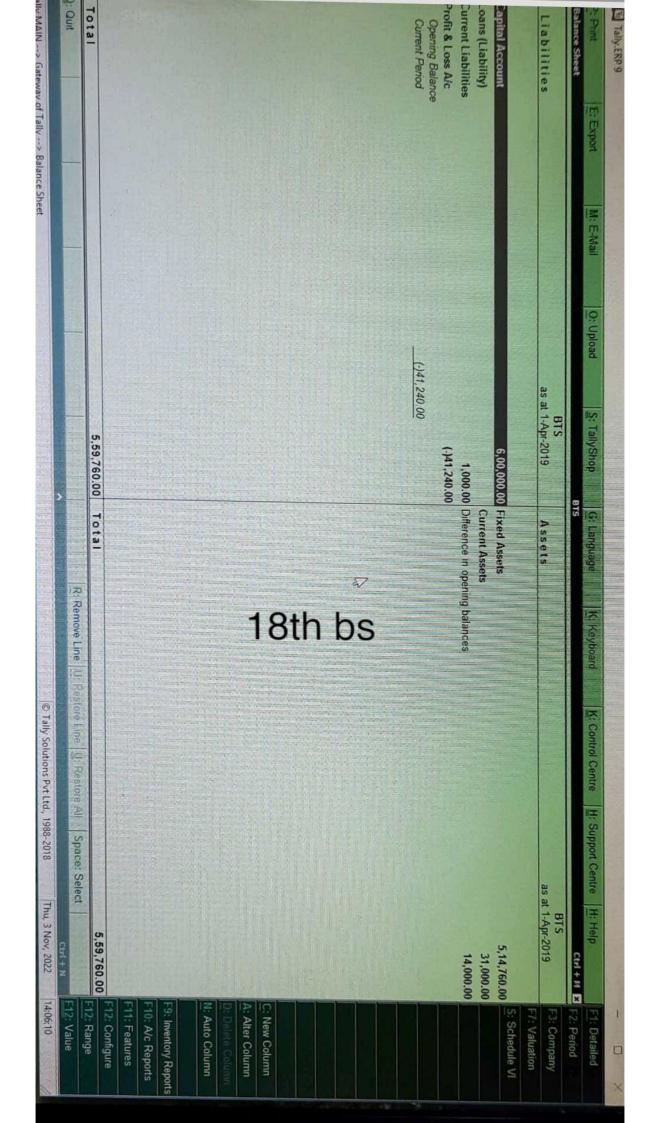
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23-24 are live now !! 2. As per Circular No. 9/2023

# e-Filing 2.0

All features of the new portal that makes e-Filing easier for youl  $% \left( {{{\mathbf{F}}_{i}}^{T}}\right) = {{\mathbf{F}}_{i}}^{T}$ 



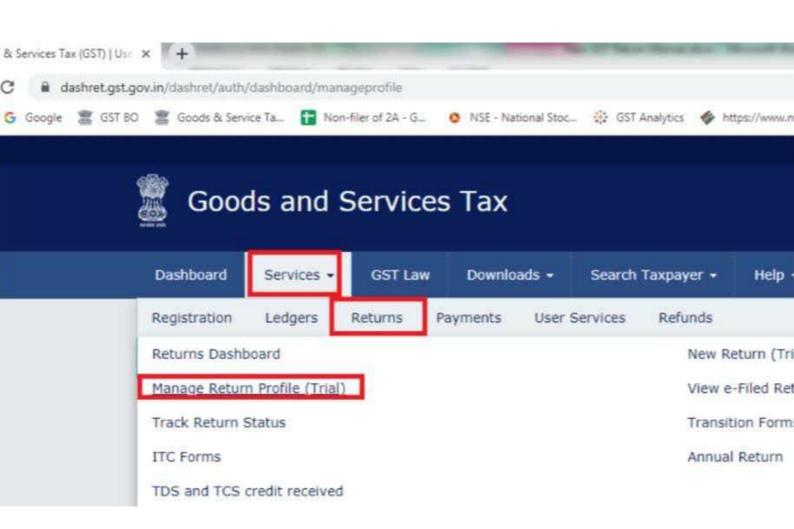
# Latest Updates

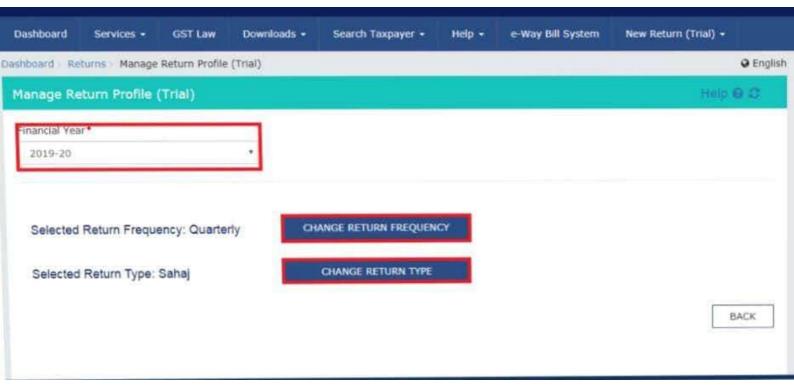
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#### View All →

### **Quick Links**

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Link Aadhaar	Income Tax Return (ITR) Status
Verify Your PAN	e-Pay Tax
Know Tax Payment Status	Instant E-PAN
Authenticate notice/order issued by ITD	Know Your AO
TDS On Cash Withdrawal	Verify Service Request
Submit Information on Tax Evasion or Benami Property	Report Account Misuse
Income Tax Calculator	Know TAN Details
Tax Calendar	Tax Information & services
Comply to Notice	Download CSI File





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# Please provide answers to following questions to prepare your dashboard. If you need help to select your return Click Here

Sr. No.	Description	Options
1	Was your aggregate turnover during preceding financial year upto rupees 5.00 Cr?	YES NO
1	If reply is 'Yes' at Sr. No. 1, do you intend to file return on quarterly basis?	🔴 YES 🌒 NO
3	If reply is 'Yes' at Sr. No. 2, choose your return -	
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	(II) SUGAM 0	100

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(iii) Quarte	rly (Normal)							
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