



## **2.3.1**

### **Student centric methods**

**(Experimental learning, Participative learning and  
Problem solving methodology)**

**A) Practical Activity Sessions**

**B) Practical Activity Sessions (Sample copy)**



## **2.3.1**

### **Student centric methods**

**(Experimental learning, Participative learning and  
Problem solving methodology)**

**A) Practical Activity Session**

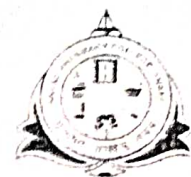


## **2.3.1**

### **Student centric methods**

#### **A) Practical Activity Session**

##### **1) Department of Pharmacognosy**



Anand Pharmacy College, Anand  
Department of Pharmacognosy  
**PRACTICAL ACTIVITY**  
**(LEARN WITH FUN)**  
Academic Year: 2022-23

**Report on the activity done during the academic year**

B.PHARM			
ODD SEMESTER			
Semester	Subject	Activity Planned	Activity Performed
3	Pharmacognosy&Phytochemistry-1	13 ( in 4 batches)	17
5	Pharmacognosy&Phytochemistry-2	13 (in 4 batches)	17
EVEN SEMESTER			
Semester	Subject	Activity Planned	Activity Performed
6	Herbal Drug Technology	6	15

**NOTE:** Deviation was observed from planned and performed activities due to the length of the practical, explanation, calculation, and understanding, of the practical task. This made the time constraints, so it was difficult to conduct activities due to lack of time.

Prepared & submitted by:

**Dr. Geetha Madhira,**  
Head of the department,  
Dept. of Pharmacognosy  
Anand Pharmacy College, Anand.







**Anand Pharmacy College, Anand**  
**Department of Pharmacognosy**  
**PRACTICAL ACTIVITY**  
**(LEARN WITH FUN)**  
**Academic Year: 2022-23**




**Report on the activity done during the academic year**

PHARM D			
Year	Subject	Activity Planned	Activity Performed
2	Pharmacognosy & Phytocheuticlas	21 (in 2 batches)	16 (in 2 batches)

**NOTE:** Deviation was observed from planned and performed activities due to the length of the practical, explanation, calculation, and understanding, of the practical task. This made the time constraints, so it was difficult to conduct activities due to lack of time.

Prepared & submitted by:

**Dr. Geetha Madhira,**  
Head of the department,  
Dept. of Pharmacognosy  
Anand Pharmacy College, Anand.

  
**Mr. Subhashchandra K Patel**  
Associate Professor,  
Dept. of Pharmacognosy  
Anand Pharmacy College, Anand.





Anand Pharmacy College, Anand  
Academic Year: 2022-23  
Department of Pharmacognosy  
PRACTICAL ACTIVITY FEEDBACK  
(LEARN WITH FUN)



Semester/Year: 22-22  
Subject code: 13PG03TP  
Date: 17/4/23

B. Pharm/Pharm D: GH  
Subject name: HD1  
Batch: A

Name of Faculty: Dr. GEETHA M

Name of Activity: Preparation &ob effervescent Granule  
Description of the Activity: Prepn & evaluation is demonstrated.

Name of students involved	Students feedbacks	Signature
Jaya	Good	
Tam	Good	T.V-SHAH
Rakhi	Nice	
Mamta	Good	
Siddhi	Knowledgeable	
Shravya	Good	
Princy	good	
Sohana	Good	Sohana
Vidhi	Good	
Angali	nice	
Sanskriti	Excellent	
Tulshi	Excellent	
Dhruvi	Excellent	
Dhanni	Nice	
Kuntal	Cognitive	Rupandya
Manav	Goodest	

Prepared by:

GEETHA M

Faculty Name: Mr. Subhashchandra K Patel  
Designation: Associate Professor  
Dept. of Pharmacognosy

Checked by:

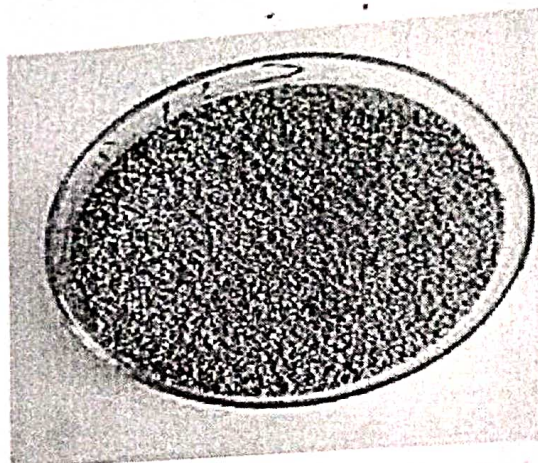
Dr. Geetha Madhira  
HOD (B. Pharm & Pharm D)  
Dept. of Pharmacognosy







**Anand Pharmacy College, Anand**  
**Department of Pharmacognosy**  
**PRACTICAL ACTIVITY**  
**(LEARN WITH FUN)**  
**Academic Year: 2022-23**







Anand Pharmacy College, Anand  
 Academic Year: 2022-23  
 Department of Pharmacognosy  
 PRACTICAL ACTIVITY FEEDBACK  
 (LEARN WITH FUN)



B. Pharm/Pharm D: B. Pharm  
 Subject name: Pharmacognosy and Phytochemistry-II  
 Batch: C

Semester/Year: 5<sup>th</sup> sem - 2022

Subject code: BP503 TP

Date: 17/08/22

Name of Faculty: GM, JPC

Name of Activity: Library visit for find the topic according to syllabus

Description of the Activity:

Name of students involved	Students feedback	Signature
Devanshi K. Mistay	Helpful	Devanshi
Patil Nidhi V.	Helpful	Patil Nidhi
Dave Rutu R.	Helpful	Rutudave
Dhairya Sharma	Informative	Dhairya
Krishna Soni	Knowledgeable	Krishna Soni
Gurjar Sujal	Helpful	Sujal
Patil Shrutika	Informative	Shrutika
Parmar Aarti	Helpful	Aarti

Prepared by:

Faculty Name: Janvi P. Chauhan  
 Designation: Assistant Professor  
 Dept. of Pharmaceutical chemistry

Checked by:

Dr. Geetha Madhira  
 HOD (B. Pharm & Pharm D)  
 Dept. of Pharmacognosy

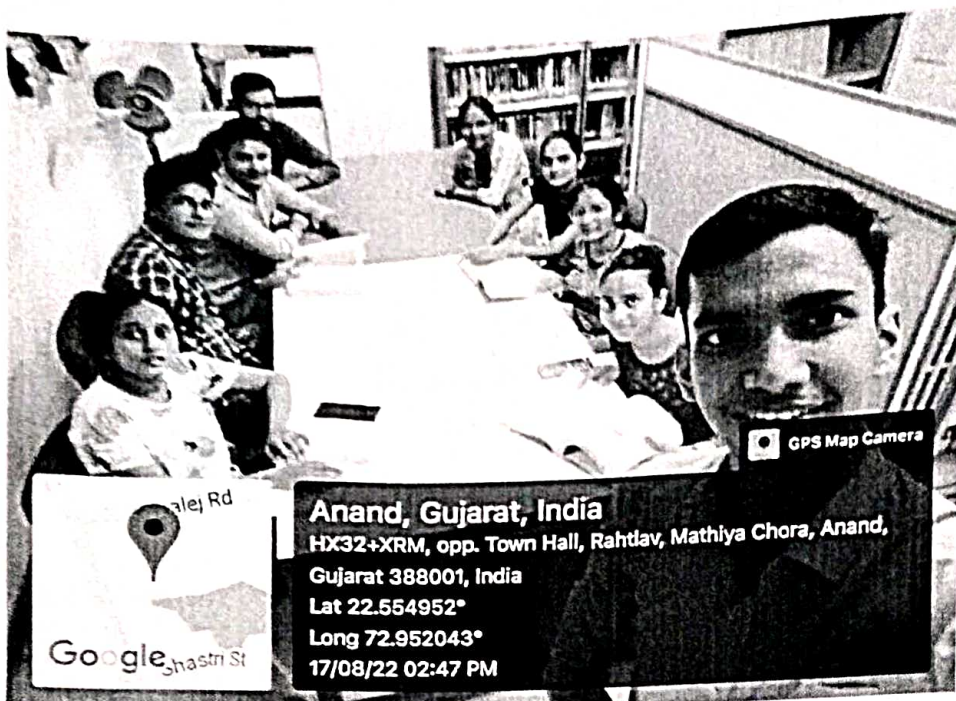
Note: Attach photographs (maximum 2) with this report and submit final hard copy







**Anand Pharmacy College, Anand**  
**Academic Year: 2022-23**  
**Department of Pharmacognosy**  
**PRACTICAL ACTIVITY FEEDBACK**  
**(LEARN WITH FUN)**







Anand Pharmacy College, Anand  
Academic Year: 2022-23  
Department of Pharmacognosy  
PRACTICAL ACTIVITY FEEDBACK  
(LEARN WITH FUN)



Semester/Year: 3<sup>rd</sup> Sem, 22-23

Subject code: BP305TP

Date: 10/10/2022

B. Pharm: B. Pharm

Subject name: Pharmacognosy & Phytochemistry I

Batch: D

Name of Faculty: Sneha Patel (SRP)

Name of Activity: Video CDemonstration of Plant tissue culture

Description of the Activity: Students clear about the what is plant tissue culture

Name of students involved	Students feedback	Signature
Apshika . R . Chandani	Interesting	@hadas
Dipika . L . Mapi	Knowledgeable	Shikha
Riya . U . Patel	Interactive	R.V. Patel
Janvi . A . Patel	Interesting	Janus
Snehti . H . Kaladiya	Knowledgeable	Snehti
Kasha . M . Patel	Interactive	@patel
Meet . V . Ganjawala	Interactive	Geetha V.
Sakshi . V . Patel	Interactive	S.V. Patel
Mukti . A . Patel	Informative	Mukti
Dhruva . J . Sindha	Interesting	D.J. Sindha
Suchin . Pemada	Interesting	Suchin
Pathan . Najneem	Interactive	N.J. Pathan
Divy . Shah	Interactive	Divy

Prepared by:

*Sneha*

Faculty Name: Sneha Patel (SRP)  
Designation: Assistant Professor  
Dept. of Pharmacognosy

Checked by:

*Geetha*

Dr. Geetha Madhira  
HOD (B. Pharm & Pharm D)  
Dept. of Pharmacognosy



Anand Pharmacy College, Anand

Academic Year: 2022-23

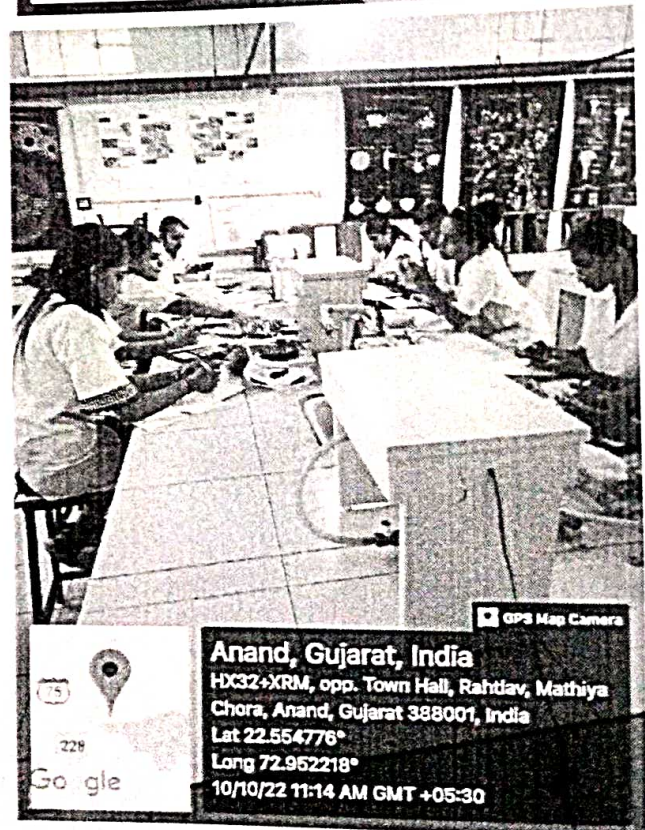
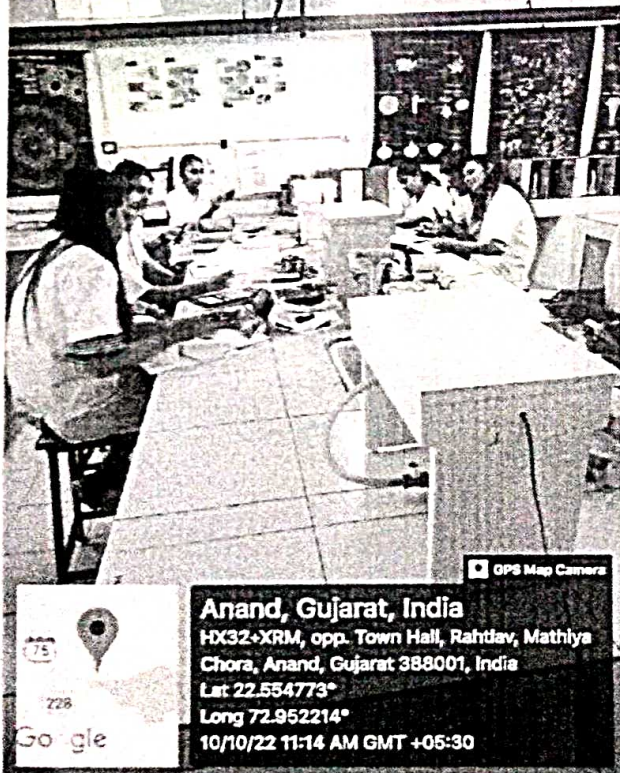
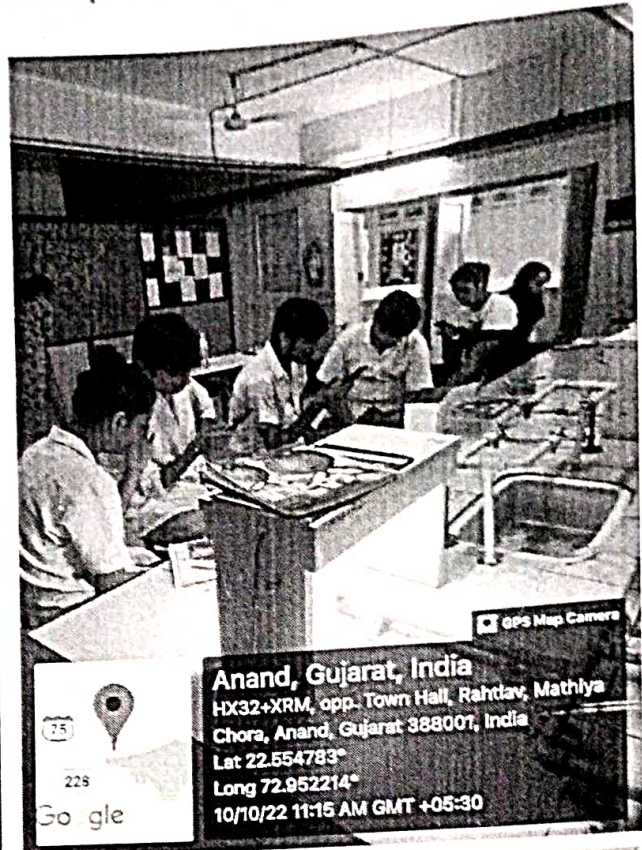
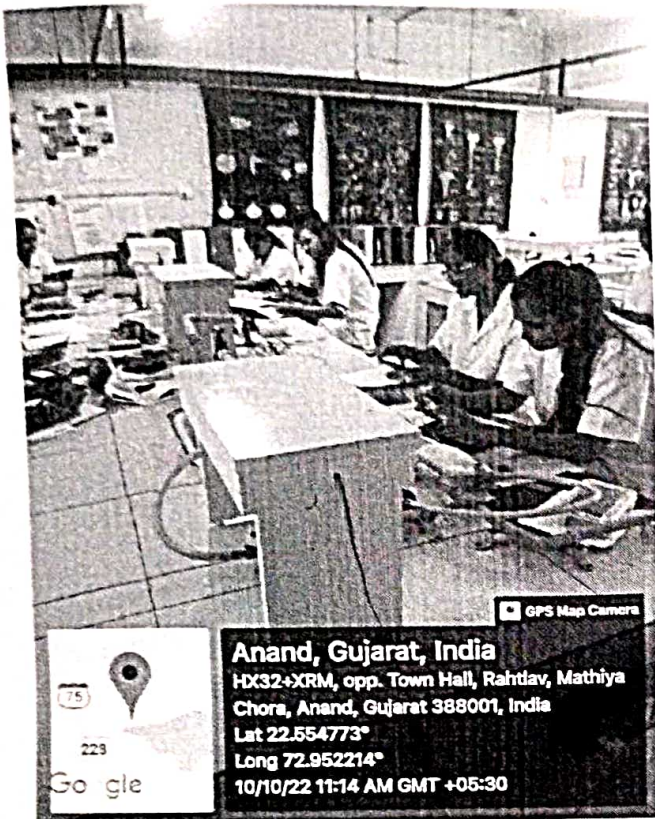
Department of Pharmacognosy

PRACTICAL ACTIVITY FEEDBACK

(LEARN WITH FUN)



Note: Attach photographs (maximum 2) with this report and submit final hard copy







## **2.3.1**

**Student centric methods**

**A) Practical Activity Session**

**2) Department of Pharmaceutics**

Anand Pharmacy College, Anand  
 Academic Year: 2022-23  
 Department of Pharmaceutics  
 PRACTICAL ACTIVITY FEEDBACK  
 (LEARN WITH FUN)

B.Pharm/PharmD: B. Pharmacy  
 Subject name: P. Micro  
 Batch: 1C

Name of Faculty: Mitul Patel

Name of Activity: Poster Making

Description of the Activity: Prepared poster on diff. topic of Micro

Semester/Year: 6th

Subject code: BP504TP

Date: 28/11/22

Name of students involved	Students feedback	Signature
Koush. Padachaniya	Good	Koush
D.S.R.	Good	D.S.P.
Dhaval Jadhav	Good	D
Rishi Parekh	Good	R
Ankit Paritras	Good	A
Vinil Pandit	Good	V
Kritan Patel	Good	Kritan
Shruti Patel	Good	Shruti
Nidul Patel	Good	Nidul
Sutudane	Good	Sutudane
Ovesh	Good	Ovesh
Dhruva	Interesting	Dhruva
Krishna	Funny	Krishna
Pranav Asthi	Good	Pranav

Prepared by:

Faculty Name: Mitul Patel  
 Designation:  
 Dept. of Pharmaceutics

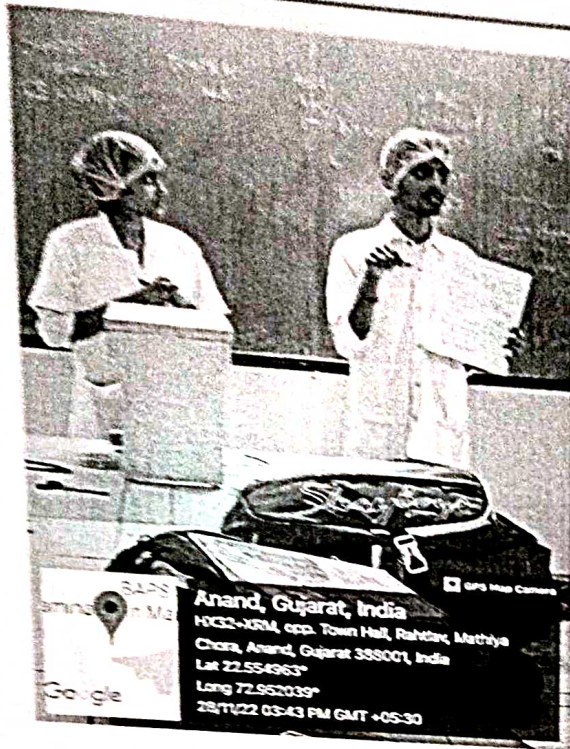
Checked by:

Dr. Dipika Chavda  
 HOD (B.Pharm & PharmD)  
 Dept. of Pharmaceutics

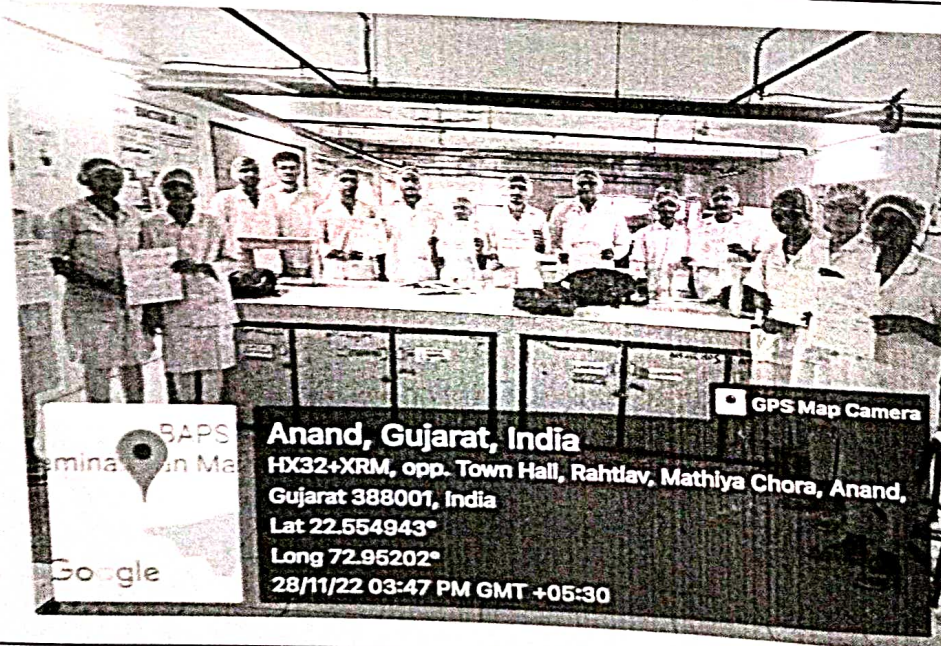
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Long 72.952039°  
28/11/22 03:43 PM GMT +05:30



**Anand, Gujarat, India**  
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Long 72.95202°  
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Anand Pharmacy College, Anand  
Academic Year: 2022-23  
Department of Pharmaceutics  
PRACTICAL ACTIVITY FEEDBACK  
(LEARN WITH FUN)



B.Pharm/PharmD: B.Pharm

Subject name: Physical Pharmaceutics I

Batch: B

Name of Faculty: Ms. Ayushi Patel

Name of Activity: Related to Surface Tension & Solvents.

Semester/Year: 3<sup>rd</sup>

Subject code: BP302TP

Date: 28/11/2022

Name of students involved

Students feedback

Signature

Goswami. Manal

Excellent

Vhora Akbar

Good

Rana Parth

Excellent

Naik Pratham

Very Good

Tambadiya kunj

Very Good

Patel. Vandana

Good

Shah Krutika

Excellent

Gandhi Khushi

Magical, good

Krutika

Vhora Nazneen

Magical

Patel. Neha

Very Good

Patel. Divyanshi

Much Better.

Bhosale Khushi

Good But Improvable

Pujari Niyati

Awesome

Verma Janshi

Damn Good

Varma Meher

Magnificent

Chudasama Bhavna

Amazing.

Jetpariya Shreya Mend Blowing

Prepared by:

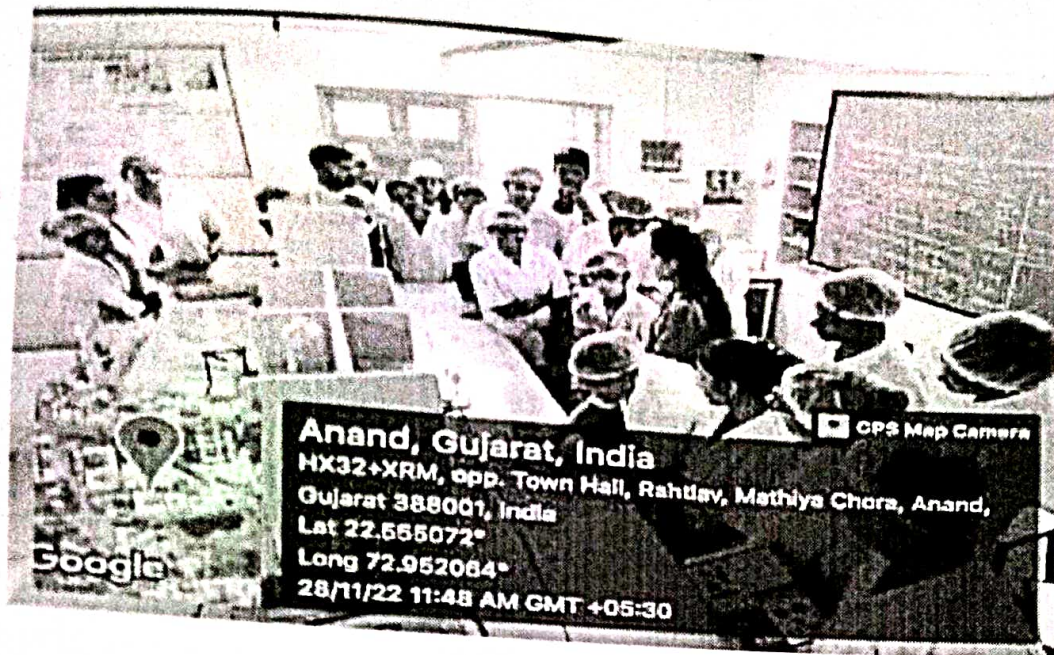
Checked by:

Faculty Name Ayushi Patel  
Designation Asst. Professor.  
Dept. of Pharmaceutics

Dr. Dipika Chavda  
HOD (B.Pharm & PharmD)  
Dept. of Pharmaceutics

Note: Attach photographs (maximum 2) with this report and submit final hard copy





**Anand, Gujarat, India**

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Gujarat 388001, India  
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28/11/22 11:48 AM GMT +05:30

Google

GPS Map Camera



**Anand, Gujarat, India**

SRKSM CAMPUS, opp. Town Hall, Rahtlav, Mathiya Chora,  
Anand, Gujarat 388001, India  
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Google

GPS Map Camera





Anand Pharmacy College, Anand  
Academic Year: 2022-23  
Department of Pharmaceutics  
PRACTICAL ACTIVITY FEEDBACK  
(LEARN WITH FUN)



B.Pharm/PharmD:

Subject name: Pharmaceutics - I

Batch: B.

Name of Faculty: Dr. Chetna Modi

Name of Activity: Latin talk

Semester/Year: First BPh.

Subject code: BP103TP

Date: 18/11/22

Description of the Activity: Sentences given to students in English and they represented in Latin terms

Name of students involved	Students feedback	Signature
Tsha Ka. patel	very informative	I.K.K
Kashish. shah	very interesting	<del>Kashish</del>
Patel Jiya	informative	<del>Jiya</del>
Patel vaidehi	informative	V.N. Patel
gohel prakush	informative	P.g. gohel.
Mauli Bhatt	Very informative	M.H.Bhatt
Janvi Parakh	Informative	J. Parakh
Apsara Suiyed	Informative	<del>Apsara</del>
Sehin Mansuri	Informative	Sehin m
Patel Tisha	Informative	<del>Tisha</del>
Lad Meek	Informative	<del>Lad</del>
patel om	Informative	<del>Om</del>
Katodiyu Devum	Extreme Good	D.J.K.
Desai Anyan	Informative	@Desai
GOHEL TIRTHRAJESINH	Extreme good and different	T.DU.
Rana Harshrajsinh	Had good exposure to Latin language from this session	<del>Rana</del>
Sojitra Dhruv.	Got exposure to Latin words	<del>Dhruv</del>

Prepared by:

Faculty Name  
Designation  
Dept. of Pharmaceutics

Chetna Modi  
Dr. Chetna Modi  
Professor

Checked by:

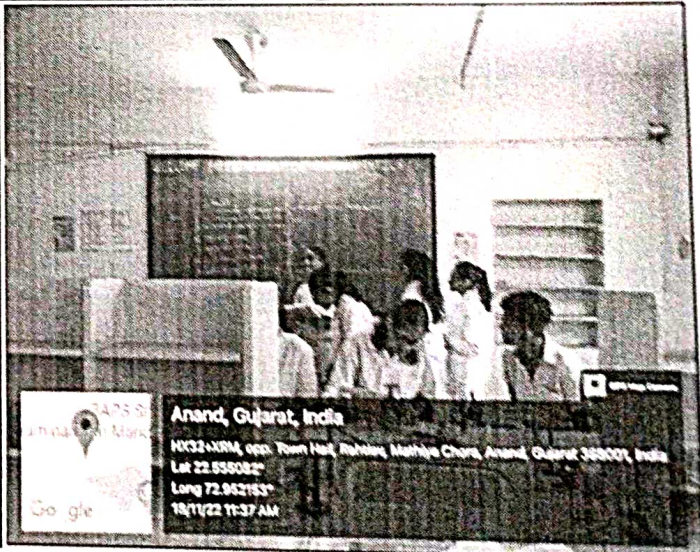
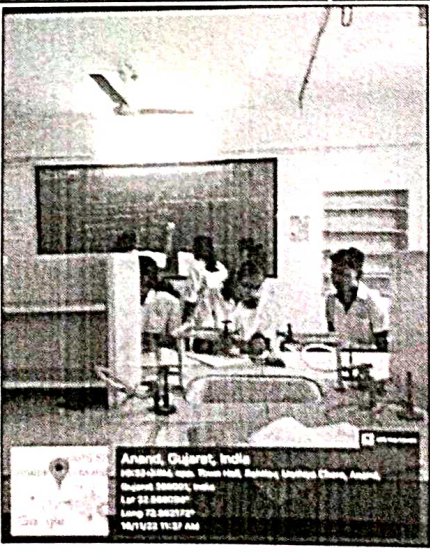
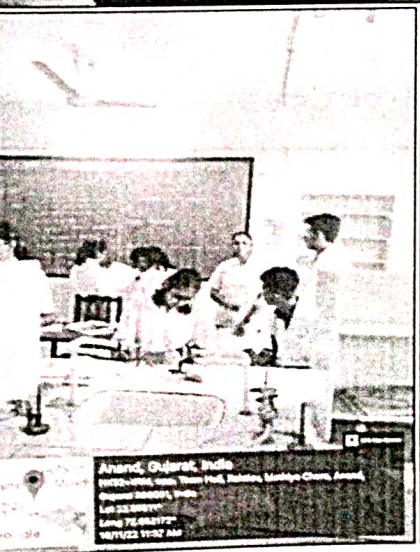
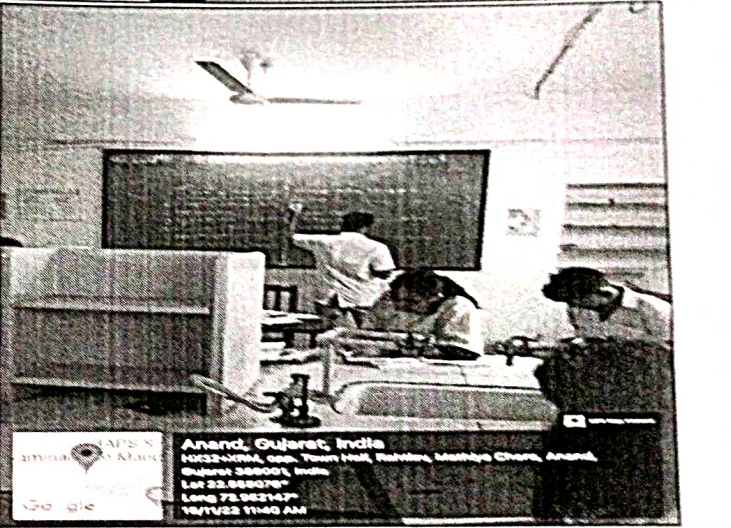
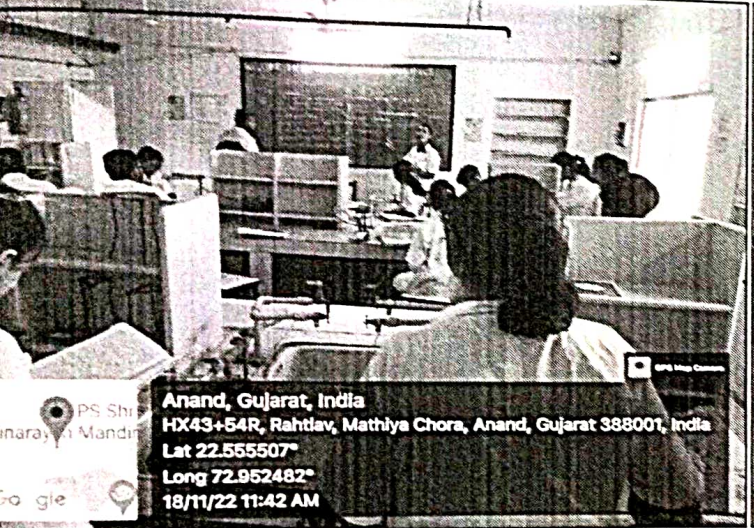
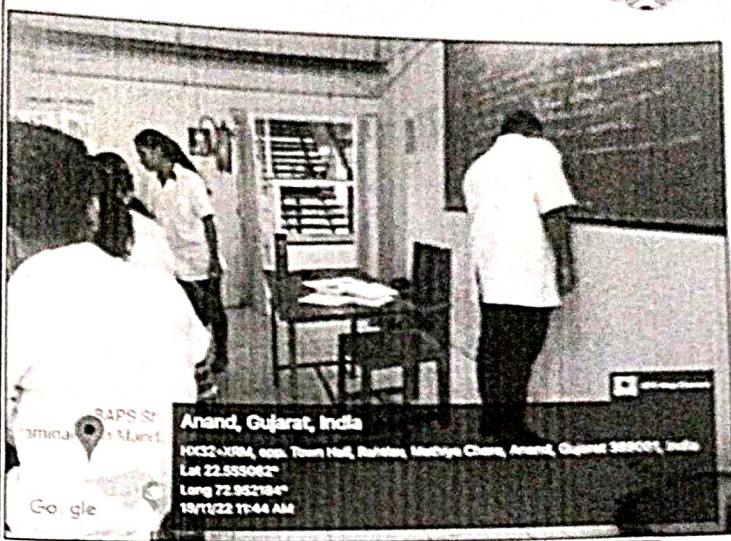
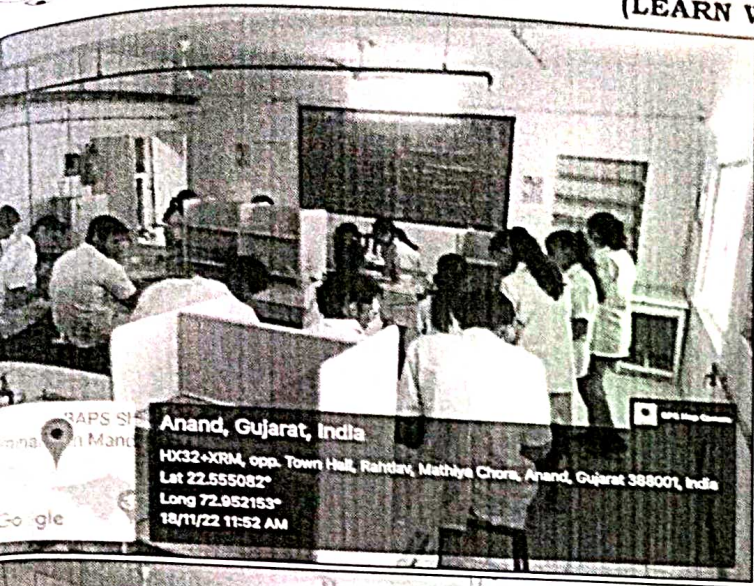
Dipika Chavda  
Dr. Dipika Chavda  
HOD (B.Pharm & PharmD)  
Dept. of Pharmaceutics

Note: Attach photographs (maximum 2) with this report and submit final hard copy





**Anand Pharmacy College, Anand**  
**Academic Year: 2022-23**  
**Department of Pharmaceutics**  
**PRACTICAL ACTIVITY FEEDBACK**  
**(LEARN WITH FUN)**







## 2.3.1

**Student centric methods**

- A) Practical Activity Session**
- 3) Department of Pharmaceutical Chemistry**

Anand Pharmacy College, Anand  
Academic Year: 2022-23  
Department of Pharmaceutical Chemistry  
ACTIVITY

Course: B.Pharm (Class I and II)

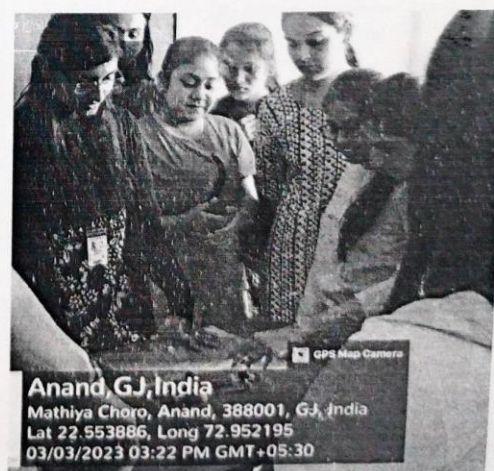
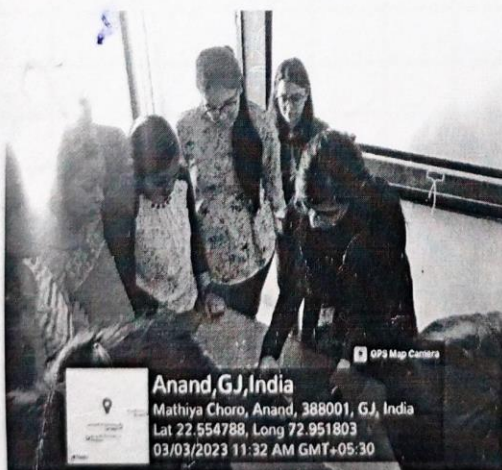
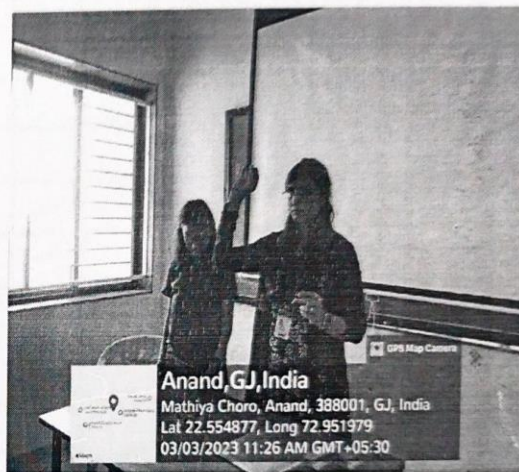
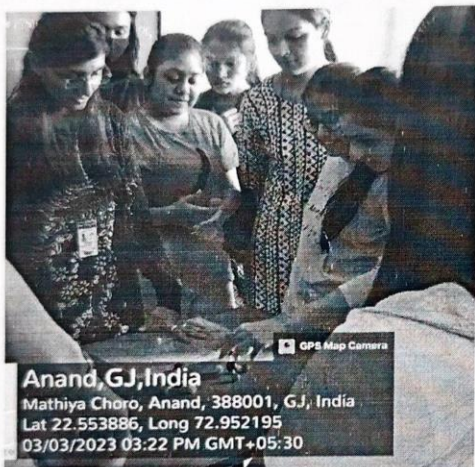
Semester: IV

Subject/code: Pharmaceutical Organic Chemistry (BP202TP)

Date: 03.03.2023

Name of Activity: Stereochemistry with Ball and Stick model

Objectives: To know how to learn stereochemistry with ball and stick model



*Spent*





Anand Pharmacy College, Anand  
Academic Year: 2022-23  
Department of Pharmaceutical Chemistry  
ACTIVITY FEEDBACK



B.Pharm/Pharm D: \$ Bpharm

Date: 03/03/2023

Subject name and code: Pharmaceutical  
organic chemistry - III  
(BP401TP)

Semester/Year: IV

Name of activity:

Batch:

Description of the activity: - Ball & stick Model

(class I & II)

Sr. no.	Name of students	1	2	3	4	5	6	7	Sign	Remarks
1	Pranjapathi Nidhi	✓	✓				✓	✓	<i>Nidhi</i>	
2	Patel Mureji	✓		✓		✓		✓	<i>Mureji</i>	
3	shastri Diya	✓	✓		2	✓			<i>Diya</i>	
4	Jani. Tulsi.	✓	✓				✓	✓	<i>Tulsi</i>	
5	Patel Yashvi	✓	✓	✓	✓			✓	<i>Yashvi</i>	
6	Aharsan Vishw	✓	✓	✓	✓			✓	<i>Aharsan</i>	
7	Tibakken Dipanshi	✓	✓	✓	✓			✓	<i>Dipanshi</i>	
8	Patel Yukti	✓	✓	✓	✓			✓	<i>Yukti</i>	
9	Tanvi Patel	✓	✓	✓	✓			✓	<i>Tanvi</i>	
10	Akash marwan	✓	✓	✓	✓			✓	<i>Akash</i>	
11	suclen marek	✓	✓	✓	✓			✓	<i>Suclen</i>	
12	Tanvi Neel	✓	✓	✓		✓		✓	<i>Tanvi</i>	
13	Joyce Sakala	✓	✓	✓		✓		✓	<i>Joyce</i>	
14	Patel Dhruvi	✓	✓		✓	✓			<i>Dhruvi</i>	
15	Patel Ncha	✓	✓	✓	✓		✓	✓	<i>Ncha</i>	

1: knowledge gain, 2- Problem solving capability, 3-Time management, 4- Team Work  
5- Decision making, 6- Communication skill, 7- Creativity

Prepared by:

Name & sign:

Dept. of Pharmaceutical Chemistry

*Gopi S. Patel*

Checked by:

Name & sign: HOD

Dept. of Pharmaceutical Chemistry

*(Signature)*





Anand Pharmacy College, Anand  
Academic Year: 2022-23  
Department of Pharmaceutical Chemistry  
ACTIVITY FEEDBACK



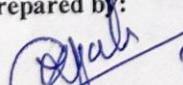
Sr. no.	Name of students	1	2	3	4	5	6	7	Sign	Remarks
16	Riya Brahmkshah	✓		✓	✓	✓		✓	Riya	
17	Deep Patel	✓		✓	✓	✓		✓	Deep	
18	Tomy Kushwaha	✓	✓	✓	✓		✓	✓	Tomy	
19	Nozreen Vohra	✓			✓		✓		Nozreen	
20	Janshi Verma		✓	✓				✓	Janshi	
21	Ritvi Patel	✓	✓	✓		✓	✓	✓	Ritvi	
22	Khushi Patel	✓	✓	✓		✓	✓	✓	Khushi	
23	Tanisha Patel	✓	✓	✓		✓	✓	✓	Tanisha	
24	Rajshree Puwar	✓	✓	✓		✓	✓	✓	Rajshree	
25	Priya Varma	✓	✓		✓	✓	✓	✓	Priya	
26	Grohil Tharvi	✓	✓			✓	✓	✓	Grohil	
27										
28										
29										
30										

1: knowledge gain, 2- Problem solving capability, 3-Time management, 4- Team Work  
5- Decision making, 6- Communication skill, 7- Creativity

Prepared by:

Name & sign:

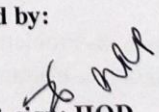
Dept. of Pharmaceutical Chemistry

 Dr. Gropi S. Patel

Checked by:

Name & sign: HOD

Dept. of Pharmaceutical Chemistry





Anand Pharmacy College, Anand  
Academic Year: 2022-23  
Department of Pharmaceutical Chemistry  
**PRACTICAL ACTIVITY**

Course: B. Pharm

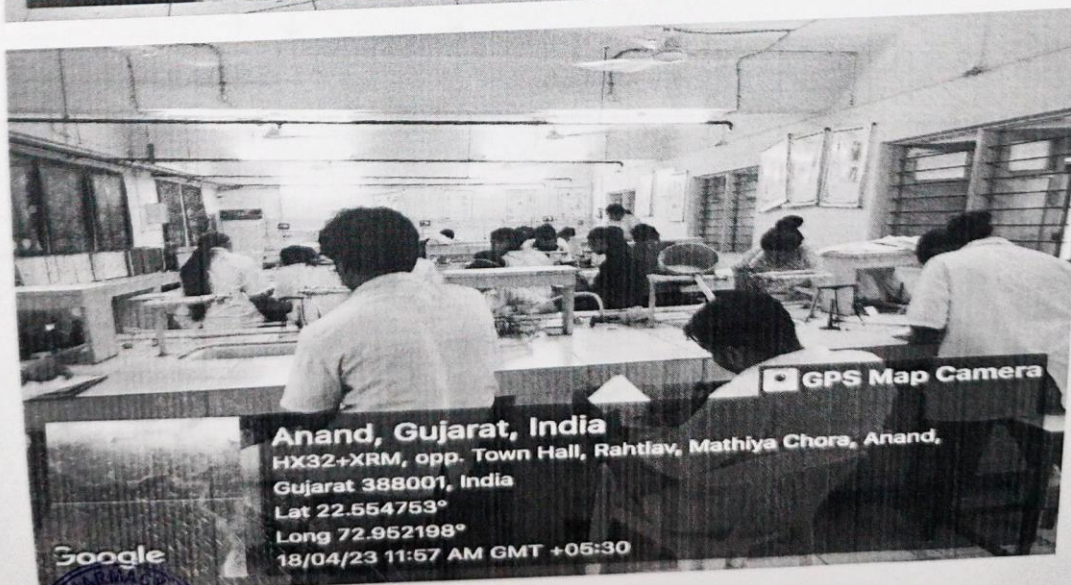
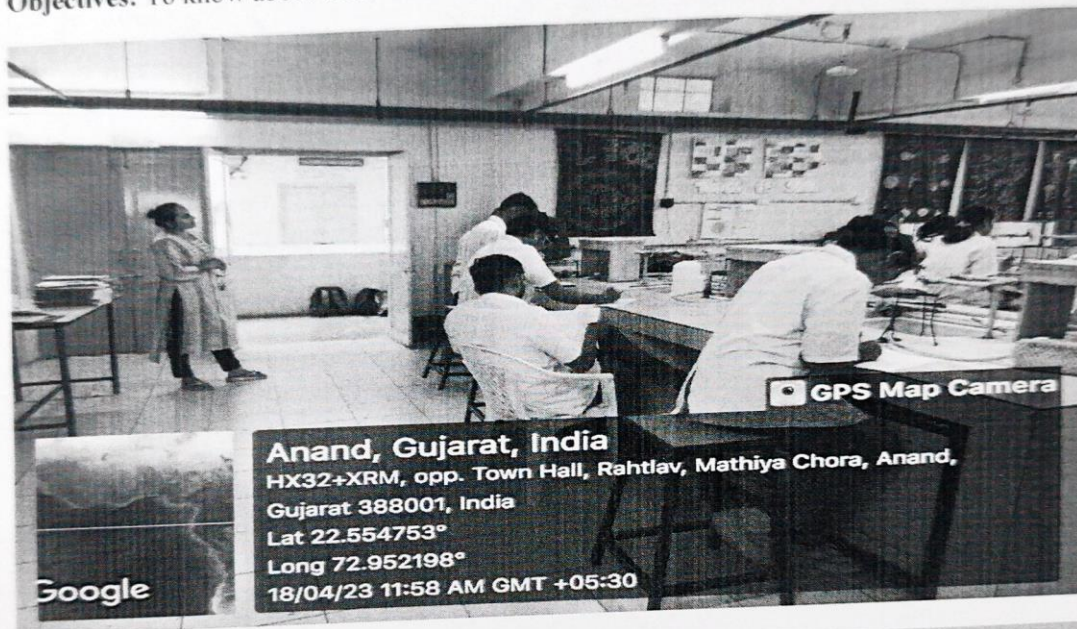
Semester: 4<sup>th</sup> (batch B)

Subject/code: Medicinal chemistry (BP402TP)

Date: 18.04.23

Name of Activity: Puzzle Solving

Objectives: To know about team work and knowledge gain







Anand Pharmacy College, Anand  
Academic Year: 2022-23  
Department of Pharmaceutical Chemistry



PRACTICAL ACTIVITY FEEDBACK

B.Pharm/Pharm D: ~~Pharm D~~ B.Pharm

Date: 21-6-23

Subject name and code: POC (BP202TP)

Semester/Year: 2<sup>nd</sup> Sem

Name of activity: Match the following

Batch: B

Description of the activity: Join the compound to their structure

Sr. no.	Name of students	1	2	3	4	5	6	7	Sign	Remarks
1	Malek Tarannum	✓							T.S. Malek	
2	Patel Bansari	✓							Patel	
3	Janvi Parekh	✓							Parekh	
4	Dhara Parekh	✓							Dhara	
5	Patel Ami	✓							Patel	
6	Patel Heli	✓							Heli	
7	Mansuri Sehin	✓							Sehin	
8	Kapatel Jsha	✓							Jsha	
9	Kashish Shah	✓							Kashish	
10	Harsh Lakum	✓							Harsh	
11	Maheshwari Yash	✓							Yash	
12	Macwan Smit	✓							Smit	
13	Mothukita Yash	✓							Yash	
14	Lad Meet	✓	✓				✓	✓	Meet	
15	Saxil Mewada	✓	✓				✓	✓	Mewada	

1: knowledge gain, 2- Problem solving capability, 3-Time management, 4- Team Work  
5- Decision making, 6- Communication skill, 7- Creativity

Prepared by:

JPC [Signature]

Name & sign:

Dept. of Pharmaceutical Chemistry

Checked by:

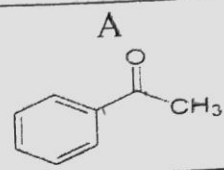
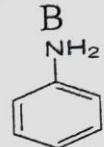
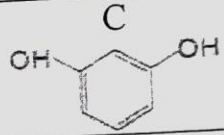
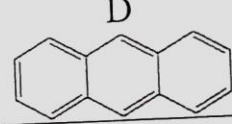
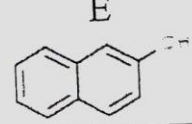
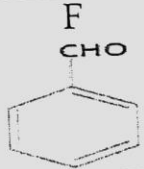
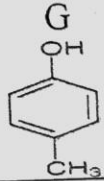
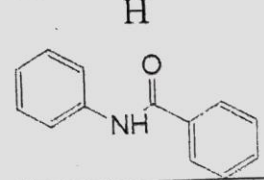
Name & sign: HOD [Signature]

Dept. of Pharmaceutical Chemistry

Pharmaceutical Organic chemistry

(44)

Match the following

Sr no.	Compound	Structure
1	Resorcinol	A 
2	$\beta$ -naphthol	B 
3	Acetophenone	C 
4	Aniline	D 
5	Anthracene	E 
6	p- cresol	F 
7	Benzanilide	G 
8	Benzaldehyde	H 





Anand Pharmacy College, Anand  
Academic Year: 2022-23  
Department of Pharmaceutical Chemistry  
PRACTICAL ACTIVITY FEEDBACK



B.Pharm/Pharm D: *B. pharma*

Date: *18/4/23*

Subject name and code: *Medicinal chemistry (BP402TP)*

Semester/Year: *4th*

Name of activity: *Puzzle Solving*

Batch: *B*

Description of the activity: *To know about ~~the~~ compounds Properties & Knowledge gain*

Sr. no.	Name of students	1	2	3	4	5	6	7	Sign	Remarks
1	<i>Kunj Tambadiya</i>	✓	✓	✓	✓	✓	✓	✓	<i>Kunj</i>	<i>GOOD</i>
2	<i>Vam Vaidan</i>		✓				✓		<i>Vam</i>	<i>good</i>
3	<i>Neer Vanner</i>	✓		✓		✓	✓		<i>Neer</i>	<i>Nice</i>
4	<i>Apoorv Prajapati</i>		✓	✓			✓		<i>Apoorv</i>	<i>Good</i>
5	<i>Janshi Verma</i>	✓			✓	✓	✓	✓	<i>Janshi</i>	<i>Fun</i>
6	<i>Vahra Nazhen</i>	✓		✓		✓	✓	✓	<i>Vahra</i>	<i>Good</i>
7	<i>Riya</i>	✓	✓		✓	✓		✓	<i>Riya</i>	<i>Informative</i>
8	<i>Dhruvi Patel</i>	✓	✓		✓	✓		✓	<i>Dhruvi</i>	<i>Good</i>
9	<i>Neha Patel</i>	✓	✓		✓	✓		✓	<i>Neha</i>	<i>Fun</i>
10	<i>Piara S Patadia</i>	✓	✓	✓	✓	✓	✓	✓	<i>Patadia</i>	<i>fine</i>
11	<i>Shah Hetvi</i>	✓	✓	✓		✓		✓	<i>Shah</i>	<i>Good</i>
12	<i>Patel manishi</i>	✓	✓	✓		✓		✓	<i>Patel</i>	<i>Fun</i>
13	<i>Pujari Niyati</i>	✓	✓		✓	✓		✓	<i>Niyati</i>	<i>Nice</i>
14	<i>Bhaskar Khushi</i>	✓	✓		✓	✓		✓	<i>Khushi</i>	<i>Good</i>
15	<i>Rakshita Khushali</i>	✓	✓	✓	✓		✓	✓	<i>Rakshita</i>	<i>  </i>

1: knowledge gain, 2- Problem solving capability, 3-Time management, 4- Team Work  
5- Decision making, 6- Communication skill, 7- Creativity

Prepared by:

*MNP* (MNP)

Name & sign:

Dept. of Pharmaceutical Chemistry



Checked by:

*[Signature]*

Name & sign: HOD

Dept. of Pharmaceutical Chemistry





Anand Pharmacy College, Anand  
Academic Year: 2022-23  
Department of Pharmaceutical Chemistry  
PRACTICAL ACTIVITY FEEDBACK



Sr. no.	Name of students	1	2	3	4	5	6	7	Sign	Remarks
16	Yashvi	✓	✓	✓		✓	✓	✓		Excellent
17	Shreya	✓	✓	✓	✓	✓	✓	✓		Excellent
18	Bhavana	✓	✓	✓	✓	✓	✓	✓		11
19	Manal	✓	✓	✓	✓	✓	✓	✓		11
20	Prath	✓	✓	✓	✓	✓	✓	✓		11
21	Pratham	✓	✓	✓	✓	✓	✓	✓		11
22	Akhar	✓	✓	✓	✓	✓	✓	✓		11
23	Krutika	✓	✓	✓	✓	✓	✓	✓		11
24	Taru	✓		✓		✓	✓	✓		Improving
25	Khushi	✓	✓	✓	✓	✓	✓	✓		11
26										
27										
28										
29										
30										

1: knowledge gain, 2- Problem solving capability, 3-Time management, 4- Team Work  
5- Decision making, 6- Communication skill, 7- Creativity

Prepared by:

Name & sign:

Dept. of Pharmaceutical Chemistry



Checked by:

Name & sign: HOD

Dept. of Pharmaceutical Chemistry



Name: Meher Vamsi

29

## MEDICINAL CHEMISTRY

Y D I E T H Y L M E L O N A T E N B  
I P H E N O T H I A Z I N E S U P E  
I B E N Z T R I A Z O L E T A D V N  
B E N Z I M I D A Z O L E T J N S Z  
D P O K X Q F N F Z F B M D T D F O  
P W P H E N Y T O I N B D G B D F C  
W I F B Z F E R Z K G B E N Z I L A  
C Z I H O W E M T U J A S S A Y L I  
Z T G B A R B I T U R I C A C I D N  
F O R M I C A C I D D E E H C A X E  
S T A N D A R D I Z A T I O N F W K  
Z Q X E U U R E A J Q X Z F X Y S F

Find the following words in the puzzle.

Words are hidden → ↓ and ↘ .

~~ASSAY~~

~~BARBITURICACID~~

~~BENZIL~~

~~BENZIMIDAZOLE~~

~~BENZOCAINE~~

~~BENZTRIAZOLE~~

~~DIETHYLMELONATE~~

~~FORMICACID~~

~~PHENOTHIAZINE~~

~~PHENYTOIN~~

~~STANDARDIZATION~~

~~UREA~~



# NOVEL TEACHING STRATEGIES TO IMPROVE STUDENT PERFORMANCE

## Pharmaceutical Analysis –I 1st semester B.Pharm

### Objective

It is often difficult to engage Pharmacy students and keep their interest when teaching pharmaceutical analysis. These modules are designed for an effective change from a lecture-only approach to teaching with the use of games and case studies in a baccalaureate Pharmacy education program.

---

# SOP for Activity

## Pharmaceutical Analysis (1<sup>st</sup> sem B.Pharm)

### **Index**

<b>Practical no</b>	<b>Activity</b>	<b>Page no</b>
<b>2</b>	<b>Copeia Puzzle</b>	<b>1</b>
<b>3</b>	<b>Thinking Boats</b>	<b>2</b>
<b>6</b>	<b>Match making</b>	<b>3</b>
<b>7</b>	<b>Odd person</b>	<b>4</b>
<b>8</b>	<b>Memory Nomads</b>	<b>5</b>
<b>9</b>	<b>Role shift</b>	<b>6</b>
<b>11-15</b>	<b>Simul ad gradum</b>	<b>7</b>
<b>16</b>	<b>Group acitivity</b>	<b>8</b>

## Practical No: 2

**Aim:** To perform calibration of volumetric apparatus (pipette, burette and volumetric flask).

### **Objective**

To achieve knowledge about calibration, its importance and to learn the methods to calibrate the volumetric apparatus.

### **Activity: Copoeia Puzzle**

Copoeia Puzzle – About IP, calibration etc.

Students will be divided in four groups(in each group 4 to students) they will be given 20 minutes time to prepare the questions (with or without options) and each team will then cross question the other team, the team that succeeds to give the maximum answer will be declared winner.

**Outcome:** Students will update and enhance their knowledge regarding IP and Calibration.

### **Practical No: 3**

**Aim:** To prepare and standardize 0.1 N Hydrochloric acid solution.

#### **Objective**

To achieve knowledge about preparation of HCl and to gain knowledge about how to prepare accurate solution in analysis

#### **Activity: Thinking Boats**

- The topic (Learning Definitions of molarity, molality, formality, normality, calculations) will be explained, the groups will be given the task the team that gives the fastest correct answer (Solved numerical) will be declared winner.

**Outcome:** Students will enhance their thinking ability and analytical ability.



## Practical No: 6

**Aim:** To prepare and standardize 0.1 M Sodium thiosulphate solution as per IP 2014.

### **Objective**

To achieve knowledge about preparation of Sodium thiosulphate.

### **Activity: Match making**

Match the pair will be given and students will have to find the correct answer and will have to add a note on the matched pair. The group having the maximum correct answers with acceptable description will be announced winner.

**Outcome:** It will learn time management and decision making skill and that will help students to answer competitive exams.

## Practical No: 7

**AIM:** To perform the assay of copper sulphate by iodometric titration.

### **Objective**

To achieve knowledge about principle of assay.

### **Activity: Odd Person –**

Series of words will be given, students will have to choose the odd one and will have to give the explanation about each even and odd chemical written.

**Outcome:** students will understand and update rationality of the prescription as a part of community pharmacist



## Practical No: 8

**Aim:** To prepare and standardize of 0.02 M potassium permanganate solution as per IP 2014.

### **Objective**

To achieve knowledge about preparation of potassium permanganate.

### **Activity: Memory Nomads –**

“ Permanganate titration” – will be taught to the groups and each group will prepare a question about the same, they will ask the fellow teams, the one giving correct answer will be announce winner.

**Outcome:** Students will update for group discussion.

## Practical No: 9

**Aim:** To determine % w/v of hydrogen peroxide solution and volume strength of solution as per IP 2014.

### **Objective**

To achieve knowledge about hydrogen peroxide, its advantage, disadvantage and calculation of strength.

### **Activity: Role Shift -**

Learning calculation about all the performed practical, each group will learn one practical and will explain one practical. The group have the inputs from all the participating members and presenting acceptably will be declared winner.

**Outcome:** students will learn about calculation for particular practical.



## Practical No: 11-15

**Aim:** To determine the percentage purity (% w/w) of ferrous sulphate I.P.2014.  
(magnesium sulphate, calcium gluconate, Sodium benzoate, sodium chloride)

### Objective

To achieve knowledge about principle, reaction, indicator.

**Activity: Simul ad gradum** – A step together to complete the story.

Each student will be designated a chemical name, he will prepare a drawing about what s/he is and will write its significance, so the first step required to complete the story (Reaction) will come and then the second has to step voluntarily, if s/he fails to do that, that is considered losing and then on that basis final winner will be declared, each team will work on this and then they will explain what they did, final winning will then be declared on the basis how sequentially they got arranged and how they explained.

**Outcome:** Students will learn the principal reaction, and also develop written and oral communication skills, confidence and minimize the stage fear.

## **Practical No: 16**

**Aim:** To perform conductometric titration of hydrochloric acid with sodium hydroxide and to determine percentage purity of given acid (HCl).

### **Objective**

To achieve knowledge about conductometric principle, and conductometric titrations.

### **Activity: Group discussion**

- Student's batch will be divided into 4 groups
- Students will be given 4 different topics and they will discuss about each topic.

**Outcome:** It will be helpful to students to improve their verbal communication skill. Also they will learn to work in a team and how to contribute in group discussion and leadership.





## **2.3.1**

**Student centric methods**

**A) Practical Activity Session**

**4) Department of Pharmacology**

1<sup>st</sup> HAP - I  
 sem B. Pharm

Batch - C.

=> match the following

- |                   |   |                                 |
|-------------------|---|---------------------------------|
| oxalic acid       | → | stain of nuclei of WBC.         |
| acetic acid       | → | Destroy RBC                     |
| metanil nitrate   | → | Isotonicity & Prevent hemolysis |
| NaCl              | → | Prevent RBC formation           |
| HgCl <sub>2</sub> | → | Fixation & Prevent              |
| mercurous         | → | Bacterial cell growth.          |

- | Roll No. | Sign.             |
|----------|-------------------|
| 54       | Khusi             |
| 56       | <del>Keer</del>   |
| 60       | <del>F. Hel</del> |
| 61       | <del>(M)</del>    |
| 63       | Rhuni             |
| 55       | Mahak             |
| 63       | <del>(S)</del>    |
| 67       | Jshel             |
| 59       | R. Yagnesh        |
| 62       | Shel              |
| 66       | Simran            |
| 59       | madhuri           |
| 58       | W. meghana        |
| 64       | D. Kavish         |
| 68       | <del>(D)</del>    |
| 64       | <del>(R)</del>    |



70. ~~A. P. Roy~~

71. ~~Panel~~

72. ~~P~~

73. ~~Panel~~

74. ~~Panel~~

75. ~~Panel~~

76. — Ab. —

77. ~~Jayson~~

78. ~~Panel~~

HAP-I

1<sup>st</sup> sem B. Pharmacy

12/01/2023

Page \_\_\_\_\_

Date \_\_\_\_\_

Batch - D

⇒ match the following

crystal Acetic acid. → Staining of nuclei of WBC  
methyl violet → Destroy RBC

NaCl → Isotonicity, prevent RBC from Hemolysis  
mercuric chloride → Isotonicity, prevent Hemolysis  
Na<sub>2</sub>SO<sub>4</sub> → Fixation of cells

Roll no	sgn.
95	Bh
79	Diyaa
82	Arzoo
85	Sobhanki R.
84	Abhay
80	Karun
88	Barot
89	uzma
83	Shyam
90	Pranali
92	U.P.M
87	S. Joshi
86	Gracy
93	Roshni
91	Jay



- 96 Jan
- 97 Zinab
- 100 Wimadisi
- 99 L. Hany
- 96 Zarema
- 98 U. Z. M
- 101 Sorachi
- 105 Ghoudi
- 106 P
- 111 Sankam
- 115 Rafal P
- 109 Shamou D
- 102 m. Koupey
- 103 Koumbi
- 108 Poum
- 112 P. Yeshwi
- 107 Shakshi
- 104 Yash
- 113 P. Shreyer
- 110 Shyam
- T1 Jainya
- T2 Arum
- 114 Gaogil
- 116 Jeyant

Batch - C

=> who am I.

=> Different organ -> Physiology (function) of appendicular Bone.

=> Tibia.

Fibula.

ulna

Radius

Femur.

Carpal, etc.

- 55 Mahesh
- 57 R. Jagannath
- 62 Sathish
- 63 Bhavani
- 66 Simran
- 54 Khushi
- 68 Chiranjeev
- 65 P. H.
- 69 P.
- 61 M.
- 60 P. Heb.
- 56 Heena
- 64 D. Venishree
- 67 Ishan
- 58 W. Meenu
- 59 madhusri



71 Patel

73 Trivedi

74 Sripava

75 Purohit

77 Jayaram

70 A. Pring

72. I

76 Aksh

78. Patel

HAP - I.  
1st sem B. Pharmacy

Page \_\_\_\_\_  
Date \_\_\_\_\_

Batch - D

=> who am I.

=> different organ -> Physiology of function  
of artier bone

=> also different part of microscope

=> Bone like - Rib cage,  
vertebral column,  
Hyoid bone  
Skull -> different  
part.

Roll no sign

95	B.	96	Zarewa
80	Karan	98	C. ZM
82	Arzo	97	Zinab
84	Abhay	94	Tan
79	Diya	101	Sorali
85	Sakunika R.	104	Yash
81	Vadant	99	L. Ansh
86	Urvi	102	M. Karpa
87	S. Joshi	108	Koulti
83	Shreyam	100	V. Mushi
88	Pooja	105	Shreya
90	Krupa	106	Ch
93	Rashmi	109	Priyanka
92	K.P.M.	107	Sakshi
89	Uzema	108	Jayant
91	Jay	111	Sankar



110. Shuami.

112. P. yashvi

111. Janyne

112. Arany

114. ~~Sony~~

115. ~~Sony~~ L.D

113. ~~Sony~~



Batch - B  
BP201TP

Page No. \_\_\_\_\_  
Date: \_\_\_\_\_

Date : 6/05/2023

Practical No: 1

Aim: To study Integumentary & special senses using specimens.

On this 6/5/23, in HAP practical we studied practical 1 to study the skin and special sense, the revision of the theory part of HAPI of sem-I was also done along  $\bar{e}$  diagrams.

48 - y.H. Dalwadi

38 - Pspatadia

29 - ~~\_\_\_\_\_~~

32 - ~~\_\_\_\_\_~~

31 - ~~\_\_\_\_\_~~

41 - ~~\_\_\_\_\_~~

35 - D.P. Patil

36 - ~~Dehu~~

34 - ~~\_\_\_\_\_~~

33 - ~~\_\_\_\_\_~~

42 - Kozition

28 - ~~\_\_\_\_\_~~

49 - ~~\_\_\_\_\_~~

53 - ~~\_\_\_\_\_~~

46 - ~~\_\_\_\_\_~~

43 - ~~\_\_\_\_\_~~

40 - ~~\_\_\_\_\_~~

52 - ~~\_\_\_\_\_~~

50 - ~~\_\_\_\_\_~~

39 = ~~\_\_\_\_\_~~

44 = D.C. Chaudhari

45 - ~~\_\_\_\_\_~~

30 - ~~\_\_\_\_\_~~

47 - ~~\_\_\_\_\_~~



Batch - B  
Bp201TP

Date: 20/05/2023

Aim: To Examine the different types of taste

Practical No: 6

On this date 20/5/23, we studied different types of taste and the sensory mechanism of identifying the type of taste.

38: Papadaria

51: Onion

54 - Broccoli

29 - Apple

32 - Jamun

31 - AV

41 - Riya

35 - D.P. Patel

36 - Nehe

34 - Mona

33 - Am

42 - Kozition

28 - Rui

49 - Apson

37 - Padh

46 - Datel

43 - Starch

40 - Antel

52 - hats

50 - Niyati Pujari

39 = Chushi

44 = D. C. Chaudhary

45 = R

30 - fufan

47 = Kushi



Date:

## Practical 3

Aim: To study endocrine system  
by specimens & models

On date 20/5/23 we studied  
practical 3 & the study of endocrine  
glands and its functions, secretions  
along with diagrams and revision of theory is  
done.

Signature

- |                             |                       |
|-----------------------------|-----------------------|
| 31 - <del>AV</del>          | 35 - P. P. Patil      |
| 32 - Jaushi                 | 41 - <u>Diya</u>      |
| 29 - <del>new</del>         | 36 - <del>Cheta</del> |
| 28 - <del>AV</del>          | 34 - <del>Manal</del> |
| 30 - <del>Jusam</del>       | 33 - <del>AV</del>    |
| 42 - <del>Wazir</del>       | 46 - <del>Patel</del> |
| 33 - <del>AV</del>          | 49 - <del>Apam</del>  |
| 47 - <u>Kuski</u>           | 53 - <u>P. N. C.</u>  |
| 48 - <u>Y. H. Desai</u>     | 57 - <u>Parth</u>     |
| 38 - <u>P. S. Patil</u>     |                       |
| 51 - <del>AV</del>          |                       |
| 54 - <u>Chohil</u>          |                       |
| 43 - <del>Shrestha</del>    |                       |
| 44 - <u>D. S. Chaudhari</u> |                       |
| 52 - <u>Bah</u>             |                       |
| 40 - <u>Cheta</u>           |                       |
| 50 - <u>M. S. Patil</u>     |                       |
| 39 - <u>Phani</u>           |                       |



Batch - B  
B.P. 2017P

Page No.

Date: / /

Date: 17/06/23

Practical No: 9

Aim :- Recording Body Temperature.

On this date 17/6/23, we studied the significance of the Body temperature. And we used digital thermometer and recorded Body temperature.

38 : Pspatodia

51 : Bas

54 : Abhil

29 : new

32 : Jank

81 : ATV

41 : Diya

35 : D.P. Patej

36 : Dehej

34 : Manat

35 : AJ

42 : Koztiaz

28 : Dis

49 : Apoor

37 : Parth

46 : Tatej

43 : Shuryel

40 : Arta

52 : hsh

50 : Niyuti  
pajari

39 : Phush

44 : D.C. Chaudhari

45 : Ru

30 : Rustum

47 : Kurshi

Batch - B

BP201TP

E. notes

9/10/23

Date:

Practical 13:

Aim :- Recording of Basal Mass Index

On this date 12/9/23, we measured BMI by measuring height and weight of a student and calculating it by the BMI formula.

48 - y.H. Dalwadi

51 - ~~Pr~~

54 - ~~Pr~~

34 - ~~Pr~~

33 - ~~Pr~~



Batch - D

# Pharmacology - I

0713123

Date \_\_\_\_\_

Page \_\_\_\_\_

Sem - 4

Batch - D

=> Animal Handling

=> Different Route of Administration

Oral,

=> Demonstration of blood collection  
from rat eye -> M.Ph - Sem - 4 - R.C.

I.P.

=> Common Handling techniques

Roll no. :-

98 Mukt

203 AB

86 De

202 Peshan

96 Vaidyabai

83 AB

88 Raj

89 P. K. m

99 Rajeev

202 Pratik

89 G. R. R.

92 P. Geetha

93 P. R.

87 Tambir

90 Dakshina

95 Mukti

200 Shrey

97 Zell

85 Pooja S

91 Rajeev

94 Kes

Date

Pharmacology - J

Date: - 09/05/23

Page \_\_\_\_\_  
Date \_\_\_\_\_

Sem - 4 B. Pharm

Batch - D

Group Discussion

=> Types of Epilepsy  
 grand-mal epilepsy  
 Petit mal epilepsy  
 other type of epilepsy like Crepuscular onset, or  
 Different symptoms like Focal seizures  
 tonic, clonic seizures,  
 Tonic, myoclonic  
 spasm, Stappen, etc.

- 96 Pooja S.
- 84 Hetvi
- 88 A
- 90 Janni
- 92 C.R.R.
- 102 Princy
- 89 Raj
- 96 Pooja S.
- 83 Vaishnavi
- 100 Mukti
- 103 D
- 91 Riya
- 85 Zeel
- 95 Dipika
- 87 D



93 Desert  
203 Cotton  
97 sheep  
94 (K)  
98 Meat  
99 P.K.M.  
86

98  
95  
88  
90  
92  
95  
97  
99  
100  
101  
102  
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116  
117  
118  
119  
120



Date

Pharmacology-I

09/09/2023

Pharmacology-I

Page \_\_\_\_\_  
Date \_\_\_\_\_

Sem-4

Batch-B

- => Animal Handling
- => Different Route of Administration
  - oral,
  - IP;
- => Demonstration of Blood collection from rat eye <sup>in presence</sup> => m.Ph-sem4-PC
- => Common Handling techniques.

Roll NO:-

- 31 ~~Nagesh~~
- 44 R.K.K.
- 52 Ankur
- 27 V. Patel
- 28 Kung
- 39 Akharsai
- 29 ~~Chirag~~
- 30 ~~Taru~~
- 39 B.K.P.
- 27. ~~Vandana~~
- 41 Riya
- 47 Yashvi
- 40 P.M.C.
- 45 P.D.K.
- 49 ~~Mishra~~
- 50 ~~R~~
- 43 Shresha
- 51 Sheth.H
- 48 Apoorva

line  
divi  
M



- 46 Khesi
- 38 Ph
- 42 Sketh
- 37 Rance
- 36 Nkhe
- 32 zambi
- 34 memu
- 35 Ph

Date

Pharmacology - I

14/9/23

Pharmacology - I

Page No.:

Date: | |

Sem - 4

Batch - D

match the following

PSS name

Forog sirgajon

Tyrod

de jelon

Korebs

origem

net ileum

Forog saktus abdomen

vas detesem

net uteris

match the following

NaCl

CaCl<sub>2</sub>

MgCl<sub>2</sub>

KH<sub>2</sub>PO<sub>4</sub>

NaHCO<sub>3</sub>

To provide alkalinity

reduce spontaneous activity

maintain contractility

Isotonicity

Act as a buffer

95

Dipik

83

Vejshnevi

86

Dr

102

Prer

97

Shur

85

Zel

89

Kuj

90

Janyj

87

Dr

84

Hetmi

98

Mlet

103

Dr

88

Dr



- 93 P. Ravi
- 101 P. Sathya
- 96 P. Sathya S.
- 91 Raja
- 94 (K)
- 92 G. R. R.
- 100 M. K. S.
- 99 P. K. M.

Sem - 4

Pharmacology - ~~1st~~ (Batch - B)

=> matching the following

PSS name

organs

Frog simg @ 1

stat ileum

Tyrod

Frog stat S. abdo <sup>main</sup>

de jeion

vas de tenens

konchs

stat uterus

=> match the following

NaCl

CaCl<sub>2</sub>

MgCl<sub>2</sub>

KHEP<sub>4</sub>

NaHCO<sub>3</sub>

To provide Alkaline <sup>PH</sup>

reduce spontaneous activity

maintain contractility

Isotonicity

Act As a Buffer

39.

B.K.P.

27

Vanous

28

Keung

41

River

47

Yashuti

40

P.M.G

52

Ambu

43

Shreel

30

Tam

51

Sheth H

29

Cheng

50

B



31 Nazeem

45 P.D.K

48 Arrohm

44 R.K.K.

49 Miyuti

46 Khushi

42 Shah

38 (P)

37 Ramee

36 Neha

33 Akshay Singh

32 Jansi

34 Asish Kumar

35 (P)



4-8-22

Date

1-8-22

# Pharmacology - II

HDP

Sem: - 9

PAGE:	
DATE:	/ /

## Batch - B

Exp-1

Q-1 match the following:-

1) NaCl

a) To provide alkaline pH.

2) KCl

b) To provide energy.

3) CaCl<sub>2</sub>

c) Act as the buffers

4) NaHCO<sub>3</sub>

d) The ionic balance.

5) Glucose

e) stabilize the preparation and reduce the spontaneous activity

6) NaH<sub>2</sub>PO<sub>4</sub>

f) To maintain the contractility of the preparation

7) MgCl<sub>2</sub> or MgSO<sub>4</sub>

g) To maintain isoosmolality, isotonicity.

6 - c

7 - e



Ans1-

- 1 - g
- 2 - d
- 3 - F
- 4 - a
- 5 - 4b
- 6 - C
- 7 - e

In Batch B, Experiment 1, Match the following of PSS composition and its function is carried out along with its basic definitions including Agonist, Antagonist, Affinity, efficacy, p'ology, In vivo, In vitro, In silico, In practice & Experimental conditions is done.

Roll no.	Sign	Roll no.	Sign	Roll no.	Sign
28	<u>Shikha</u>	37	<u>K.R. Patel</u>	46	
29	<u>Adarsh</u>	38	<u>K.D. Patel</u>	47	<u>Raj</u>
30	<u>R.A. Patel</u>	39	<u>Shikha</u>	48	<u>J.D. Ramani</u>
31		40	<u>Dipak</u>	49	<u>Yashvi</u>
32	<u>Rohit</u>	41	<u>Shikha</u>	50	<u>H.M.S</u>
33	<u>Adarsh</u>	42	<u>Adarsh</u>	51	<u>H.K.C.</u>
34	<u>K.R. Patel</u>	43	<u>Shikha</u>	52	
35	<u>Yashvi</u>	44	<u>Yashvi</u>	53	<u>Imratel</u>
36	<u>J.M. Anwarale</u>	45	<u>Raj</u>	54	<u>Raj H. Patel</u>



Date :- 27/7/2022

In Batch-C, Experiment-1 match the following of PSS composition & it's function is carried out along with it's basic definition, including Agonist, Antagonist, Affinity, Efficacy, Pharmacology, In vitro, In vivo, In silico, In papero & Experiment Condition is done.

⇒ Match.

- |   |  |  |
|---|--|--|
| 1 | NaCl                                   | a) To Provide alkaline PH                                      |
| 2 | KCl                                    | b) To Provide energy   |
| 3 | CaCl <sub>2</sub>                      | c) Act as the Buffer   |
| 4 | NaHCO <sub>3</sub>                     | d) The ionic balance   |
| 5 | Glucose                                | e) Stabilize the Preparation & reduce the spontaneous activity |
| 6 | NaH <sub>2</sub> PO <sub>4</sub>       | f) To maintain the conductivity of Preparation                 |
| 7 | MgCl <sub>2</sub> or MgSO <sub>4</sub> | g) To maintain isoosmolality, isohonicity                      |

Ans :-

- 1 - g
- 2 - d
- 3 - f
- 4 - a
- 5 - b
- 6 - c
- 7 - e



Roll No.	Sign.	Roll no	Roll no
59	<del>Shubh</del>	22	Rajni
57	<del>Shubh</del>	24	Rajni
55	<del>Shubh</del>	15	Rajni
65	<del>Shubh</del>	25	Rajni
66	<del>Shubh</del>	4	Rajni
79	<del>Shubh</del>	24	Rajni
72	<del>Shubh</del>	9	Rajni
67	<del>Shubh</del>	17	Rajni
68	<del>Shubh</del>	05	Rajni
58	<del>Shubh</del>	19	Rajni
73	<del>Shubh</del>	20	Rajni
74	<del>Shubh</del>	16	Rajni
75	<del>Shubh</del>	7	Rajni
81	<del>Shubh</del>	21	Rajni
64	<del>Shubh</del>	2	Rajni
56	<del>Shubh</del>	18	Rajni
77	<del>Shubh</del>	26	Rajni
62	<del>Shubh</del>	3	Rajni
63	<del>Shubh</del>	11	T.v. Shan
61	<del>Shubh</del>	14	N.N. Shan
80	<del>Shubh</del>		
70	<del>Shubh</del>		
69	<del>Shubh</del>		



8-8-22

Roll. No. n  
Biology II

ADM

HDD

Date 2/8/22

Page

Batch - C

Date :- 2 Aug 2022

In Batch-C Experiment-2 match the following of Type's of PSS and it's uses.

Types of PSS organ.

- |   |                                |                         |
|---|--------------------------------|-------------------------|
| 1 | Frog Ringer                    | a) Rat Uterus           |
| 2 | Tyrode                         | b) Guinea Pig ileum     |
| 3 | De Jalon                       | c) Frog heart tissue    |
| 4 | kreb's bicarbonation Solution. | d) Tracheal Preparation |

1 - c , 2 - b , 3 - a , 4 - d

Roll. No.	Sign.		
76	<del>Dhruv</del>	70	<del>Yashu</del>
74	<del>Adi</del>	69	<del>Adi</del>
71	<del>Mudassir</del>	60	<del>Adi</del>
81	<del>Dhruv KB</del>	59	<del>Adi</del>
78	Dhruv	57	Jyoti
73	P. Parikh	55	Pratik
56	Keerthi	65	Pratik
64	Arshvi	66	Pratik
75	Soham	72	Pratik
63	Chaitanya	79	Pratik
62	Hansraj	67	<del>Adi</del>
77	Kalyani	68	Tanvi
61	Pratik	58	Sreyas
80	<del>Adi</del>		



4/8/22 → Batch - A

Roll No.	Sign
22	<u>[Signature]</u>
25	<u>Prina</u>
24	<u>[Signature]</u>
9	<u>[Signature]</u>
4	<u>[Signature]</u>
16	<u>[Signature]</u>
17	<u>[Signature]</u>
20	<u>[Signature]</u>
15	<u>[Signature]</u>
18	<u>[Signature]</u>
3	<u>[Signature]</u>
19	<u>[Signature]</u>
05	<u>Sohana</u>
2	<u>Parma</u>
27	<u>[Signature]</u>
7	<u>[Signature]</u>
26	<u>[Signature]</u>
11	<u>T.v.shan</u>
21	<u>Rupanchya</u>
14	<u>D.w.shan</u>



Date  
8-8-22

1.2

Pharmacology - II  
Batch - B sem - 4

HDD  
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Q-1 Match the following -

Types of PSS	Organ.
i) Frog Ringer's.	a) Rat Uterus.
ii) Tyrode.	b) Guinea pig ileum.
iii) De Jalon.	c) Frog heart tissue.
iv) Kреб's solution.	d) Tracheal preparation.

i) - c      ii) - b      iii) - a      iv) - d.

In Batch - B, experiment 2 match the following of Type's of PSS and it's uses

Roll.No	Sign	35 Vidhi	43
28	<del>Pisala</del>	36 H.M. Aniswal	<del>44</del> Uteb
29	<del>ADTRIVECH</del>	37 K.R. Patil	45 <del>Patil</del>
30	Ab	38 R.D. Patil	46 -
31	-	39 Shivangi	47 <u>Soni</u>
32	<del>Patil</del>	40 Dipak	48 J.D. Patil
33	<u>PJHA</u>	41 Shaili Patil	49 Varshi
34	V.C. Patil	42 Ajay	50 <u>JMS</u>
			51 H.K.C.



52 - Phalun II - Phalun I

53 hmpatel

54 Raj. H. Patel →

PAGE:	
DATE:	/ /

Labels of the following -

- (i) Food intake
- (ii) Urine
- (iii) The Tissue
- (iv) Kerp's solution

1) - c      ii) - d      iii) - c      iv) - d

In Part B experiment a water the following of the and the

Sl. No.	Name	Roll No.	Grade
1	Phalun II		
2	Phalun I		
3	hmpatel		
4	Raj. H. Patel		

27/7/22

Sem: 5

Page \_\_\_\_\_  
Date \_\_\_\_\_

Batch D

Match the following

- |                            |   |
|----------------------------|---|
| (i) NaCl                   | (a) To provide alkaline pH                                  |
| (ii) KCl                   | (b) To provide energy                                       |
| (iii) $CaCl_2$             | (c) Act as buffer   |
| (iv) $MgHCO_3$             | (d) The ionic balance                                       |
| (v) Glucose                | (e) Stabilize the preparation & reduce spontaneous activity |
| (vi) $NaH_2PO_4$           | (f) To maintain contractility of preparation                |
| (vii) $HgCl_2$ or $HgSO_4$ | (g) To maintain <sup>iso-</sup> osmolarity, isotonicity     |

Roll no:-

104

102

101

107

86

87

83

98

91

109

92

106

89

108

Sign

Anjali Pandey.

Divya

Shreya

Pranvi

Amritha

Poojanigga AR

Vha

reshmi

Domant

J A Seneley

~~Pranvi~~

Himal

Pranvi

Divya

Pranvi



95

Ransom

93

~~Journal~~

99

J. W. Scully

105

Prattic Patel

84

Prakruti Rajgor

108

Parshvi Patel

94

KL

103

Foggy

Sem-5

Pharmacology - II  
(BPS02TP)

D: 07/11/22

Batch-0

Topic: Effect of drugs on isolated frog heart.

Innovative Activity:-

- Youtube video of Isolated frog heart experiment. (X-pharm Software)
- Question Answer of diff drugs, effect on heart. ~~at~~ including Receptors action, Mechanism pathway.
- Visit to Library, Refer diff books of physiology.

⇒ Outcomes

= Understand the ~~Rate of~~ effect of drug on heart, which Receptor gives action ~~at~~ ~~with~~ with its M/A.

⇒

Roll No

Signature

82

83

84

85

86

87

88

89

90

Shantanu

Bhaskar

Prakruti

Shivani

Absent



91 - Absent

92 ~~Present~~

93 - Absent

94 Present

95 ~~Present~~

96 }  
97 } - Absent

98 Rohan

99 P. Anand

100 - Absent

101 Shreya

102

103

104 } - Absent

105

106 Hail

107 - Absent

108 P. A. Patel

109 }  
110 } - Absent

101	Shreya
102	
103	
104	
105	
106	Hail
107	
108	P. A. Patel
109	
110	

3/8/22

Sem:- 5

Page \_\_\_\_\_  
Date \_\_\_\_\_

Batch D

Match the following

Types of PSE	Organ
(i) Frog Ringer	(a) Rat Uterus
(ii) Tyrode	(b) Guinea Pig ileum
(iii) De Jalon	(c) Frog heart tissue
(iv) Krebs solution	(d) Tracheal preparation

(i)-c (ii)-b (iii)-a (iv)-d.

Roll no:- Sign.

104	Anjali Pandey
102	Divya
101	<del>Shagya</del>
82	<del>Udantini</del>
107	Hani
86	<del>Ampati</del>
83	<del>Bhav</del>
87	<del>Paswanigupta</del>
98	<del>Rohit</del>
92	<del>De</del>
91	<del>Pandey</del>
109	<del>Arpancha</del>
106	Hani
89	Randi
88	Dipati
103	<del>Pooja</del>
95	<del>Punishu</del>
93	<del>Aranya</del>
99	J. d. sainwal



- 105 Pratik Patel
- 84 priyankuti Rajgor
- 102 Pooashwi Patel
- 94 Choudhary Heena
- 106 Hinal