



INDEX

Criteria No : 2

Metricno: 2.2.1

File name (QIM) The institution assesses the learning levels of the students and organises special Programmes for advanced learners and slow learners

Sr.No.	Content
Assessment of Slow and Advanced learners	
1.	Identification of learners policy
2.	Identification by Student Practical Evaluation
Details of special programs for slow learners	
3.	. Remedial Class Record
4.	Question bank/ University question paper
5.	Model Answer for question bank/ Subject Notes
6.	Assignment
Details of special programs for Advanced learners	
7.	Competitive exam guidance
8.	Appreciation Advanced Learner
9.	Mini Projects
10.	Expert Lectures/ Webinars/ Seminars
11.	Co –Curricular & Extra- curricular Activities



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Pravaranagar, A/p.Loni-413 736



Policy for identification of slow and advanced learner

1. The mentor system used to identification of slow and advanced learners and provides a softer approach to conversion of slow learner to advanced learner under the watchful eyes of the mentor.
2. Upon admission into the institution, the students are observed during theory and practical sessions.
3. Slow and Advanced learner identification is done using "Index of Learning styles questionnaire" and the result is mapped.
4. Prior to any internal assessment, the slow learners are identified in each subject based upon their performance during viva voce of theory (Conducted in practical hours).
5. Make up classes are arranged for such students, night library facility is also provided to the students.
6. The advanced learners also act as student mentors to their peers since it has been observed that student's acceptability of peers is more.
7. Group study is encouraged in such cases. To make the transition of slow learners to advanced learners easier and to sustain the advanced learners.
8. The institution adopts several measures such as encouraging the students to attend various co-curricular and extra-curricular events, conducting remedial classes for benefit of students who have backlogs, coaching for competitive examinations to name a few.



[Signature]
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FIRST SESSIONAL EXAMINATION MARK LIST 2022-23

Class-Second Year B. Pharm (2019 Pattern)

Semester-I

Subject-Physical Pharmaceutics I (PRACTICAL)

A- 26

B- 26

C - 26

D - 25

E-25

B-

Roll No.	Name of Students	Theory				Student Sign
		Sessional 40 M	Converted to 10 M	Cont. Assignment 5M	Total 15 M	
1.	Aabak Mangal Santosh	30	8	4	12	
2.	Aher Shrushti Rajendra	34	9	4	13	
3.	Anerao Abhishek Parmeshwar	29	7	4	11	
4.	Avhad Yash Sanjay					
5.	Bagal Dnyaneshwar Sanjay	25	6	4	10	
6.	Bagal Rohit Nanasahab	24	6	4	10	
7.	Bairagi Shweta Vijaykant	27	7	4	11	
8.	Barde Mansibsanjay	28	7	4	11	
9.	Barmade Chetan Laxman	27	7	4	11	
10.	Bhalerao Sanjana Raju	35	9	4	13	
11.	Bhand Pratibha Sanjay	32	8	4	12	
12.	Bhange Hariom Dattu	33	8	4	12	
13.	Bharta Sachin Ramesh	25	7	4	11	
14.	Bhendeekar Sushmita Anil	34	8	4	12	
15.	Bhosale Pradnya Anil	30	7	4	11	
16.	Bodhak Snehal Arun	29	7	4	11	
17.	Borude Aniket Ashok	Ab	Ab	Ab	Ab	
18.	Bramharakshas Subhadra Gautam	33	8	4	12	
19.	Chabukswar Riya Dilip	31	8	4	12	
20.	Chaudhari Arti Baban					
21.	Chavan Sakshi Kondiram	31	8	4	12	
22.	Chavan Yuvraj Santosh	34	8	4	12	
23.	Chavhanke Payal Dattu	32	8	4	12	
24.	Chide Vaibhavi Sanjay	32	8	4	12	
25.	Dange Rajashri Rajendra	33	8	4	12	
26.	Darandale Gauri Shivaji	33	6	4	12	
27.	Dhokane Chaitali Babasaheb	30	7	4	11	
28.	Dhokte Soham Gajanan	30	7	4	11	



29.	Dongare Shejal Prabhakar	28	7	4	11	
30.	Dumbre Atharva Namdev	29	7	4	11	
31.	Dushing Saurabh Pradip	29	7	4	11	
32.	Gadekar Sanjana Shantaram	32	7	4	12	
33.	Gaikwad Rina Vijay	29	7	4	11	
34.	Gaikwad Swapnali Ganesh	30	7	4	11	
35.	Gaiwal Sanika Dadasaheb	31	8	4	12	
36.	Ghodke Pratiksha Mangesh	28	7	4	11	
37.	Ghogare Atharva Madhukar					
38.	Ghorpade Ishwari Shriniwas	27	7	4	11	
39.	Gire Nishigandha Ramprasad	27	7	4	11	
40.	Girhe Jayraj Subhash	Ab	Ab	Ab	Ab	
41.	Golhar Prajakata Anjabapu	Ab	Ab	Ab	Ab	
42.	Gore Vikas Jalindar	26	7	4	11	
43.	Guldagad Siddharth Dinkar	25	6	4	10	
44.	Gunjal Vaishnavi Ashok	29	7	4	11	
45.	Gunjkar Vaibhav Janardhan	31	8	4	12	
46.	Hajare Jyoti Ansyabapu	25	6	4	10	
47.	Jadhav Aniket Kakasaheb	25	6	4	10	
48.	Jadhav Sahil Babasaheb	27	7	4	11	
49.	Jadhav Trupti Annasaheb	29	7	4	11	
50.	Jamdhade Mansi Sachin	Ab	Ab	Ab	Ab	
51.	Jamdhade Rutuja Shirish	26	7	4	11	
52.	Javade Jyoti Shivshankar	29	7	4	11	
53.	Kadam Sakshi Rajkumar	34	9	4	13	
54.	Kadam Sakshi Uttam	28	7	4	11	
55.	Kadam Sarika Sanjay	30	8	4	12	
56.	Kale Kalyani Sanjay	36	9	4	13	
57.	Kale Rushikesh Umesh	28	7	4	11	
58.	Kanade Satvik Sandip	24	6	4	10	
59.	Kape Sakshi Nanasaheb	30	8	4	12	
60.	Karne Rohit Bhimrao	32	8	4	12	
61.	Katare Gayatri Ganesh	32	8	4	12	
62.	Kedar Pratiksha Namdeo	32	8	4	12	
63.	Khairnar Sayali Sham	33	8	4	12	
64.	Kharde Prajakta Sanjay	36	9	4	13	
65.	Khemnar Kanchan Rabhaji	35	9	4	13	



66.	Khemnar Shubhangi Ashok	36	9	4	13
67.	Khopade Tanuja Tukaram	36	9	4	13
68.	Killedar Parth Suhas	30	8	4	12
69.	Kokare Nutan Eknath	36	9	4	13
70.	Kurhade Siddhi Prakash	32	8	4	12
71.	Lahamge Sneha Arun	36	9	4	13
72.	Lawande Ravindra Chandrakant	36	9	4	13
73.	Lokhande Pranay Laxman	28	7	4	11
74.	Londhe Suraj Sanjay	26	7	4	11
75.	Maharnor Akash Bhagwan	35	9	4	13
76.	Marathe Kajal Sampat	28	7	4	11
77.	Mengal Ashvini Balasaheb	33	8	4	12
78.	More Akash Shravan	26	7	4	11
79.	More Om Sachin	34	9	3	12
80.	Mukhekar Aditya Dadasaheb	34	9	3	12
81.	Munde Ritesh Walmeek	33	8	3	11
82.	Musmade Aditi Kisan	34	9	4	13
83.	Nagare Anil Madhukar	39	10	4	14
84.	Nagare Rutuja Shivaji	37	10	4	14
85.	Nagare Viraj Anant	34	9	4	13
86.	Narang Palak Indrapal	35	9	3	12
87.	Navgire Vaishnavi Nandkumar	34	9	4	13
88.	Nikam Jagdish Ganesh	35	9	3	12
89.	Nikam Kalyani Hemant	35	9	4	13
90.	Nirmal Vaishnavi Nanasaheb	36	9	3	12
91.	Palve Pallavi Dilip	36	9	4	13
92.	Palve Vaishnavi Machhindra	39	10	4	14
93.	Pansare Sumitra Sunil	37	10	4	14
94.	Pardhi Payal Digambar	38	10	4	14
95.	Patil Bhakti Pradip	36	9	4	13
96.	Pawar Ankita Rajendra	36	9	4	13
97.	Raut Gajanan Balasaheb	39	10	4	14
98.	Saindar Srushti Vasant	36	9	4	13
99.	Salunke Swarup Ganesh	34	9	4	13
100.	Sapte Sakshi Chandrakant	38	20	3	13
101.	Shaikh Aman Sattar	34	9	3	12
102.	Shaikh Saad Samir	38	10	4	14



103.	Shelke Apurva Balasaheb	38	10	4	14
104.	Shinde Aditi Harichandra	30	8	4	12
105.	Shinde Karan Santosh	30	8	4	12
106.	Shinde Samruddhi Rajendra	33	8	4	12
107.	Shinde Saurabh Sachin	28	7	4	11
108.	Shinde Siddhi Somnath	31	8	4	12
109.	Solanke Gauri Eknath	28	7	4	11
110.	Solanke Shailesh Suryakant	34	9	4	13
111.	Sonawane Pratiksha Prashant	30	8	4	12
112.	Survase Pawankumar Sopanrao	25	6	4	10
113.	Tambe Gaurav Sanjay	27	7	4	11
114.	Tambe Tanushka Nanasaheb	31	8	4	12
115.	Thete Prasad Sharad	28	7	4	11
116.	Thete Sayali Sanjay	30	8	4	12
117.	Thite Vaibhav Jitendra	27	7	4	11
118.	Vadak Prachi Annasaheb	31	8	4	12
119.	Varade Shruti Ashok	27	7	4	11
120.	Varghude Vaibhav Bhausaheb	28	8	4	12
121.	Vendait Sagar Ramesh	27	7	4	11
122.	Vikhe Atharva Vasant	27	7	4	11
123.	Vishe Prerana Ashok	27	7	4	11
124.	Wagh Mayuri Bhausaheb	28	7	4	11
125.	Ware Sangam Parmeshwar	27	7	4	11
126.	Yadav Aditya Arunkumar	27	7	4	11
127.	Zagade Ashwini Suresh	26	7	4	11
128.	Zite Sonali Laxman	29	7	4	11



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SECOND SESSIONAL EXAMINATION MARK LIST 2022-23

Class-Second Year B. Pharm (2019 Pattern)

Semester-III

Subject-Physical Pharmaceutics I (PRACTICAL)

C- 26

B- 26

C - 26

D - 25

E-25

Total No. of Student Appeared	Total No. of Student Present	Total No. of Student Absent	Roll No. of Absent Students			
128						
Roll No.	Name of Students	Theory				Student Sign
		Sessional 40 M	Converted to 10 M	Cont. Assignment 5M	Total 15 M	
129.	Aabak Mangal Santosh	33	8	4	12	
130.	Aher Shrushti Rajendra	33	8	4	12	
131.	Anerao Abhishek Parmeshwar	30	8	4	12	
132.	Avhad Yash Sanjay					
133.	Bagal Dnyaneshwar Sanjay	29	7	4	11	
134.	Bagal Rohit Nanasahab	27	7	4	11	
135.	Bairagi Shweta Vijaykant	28	7	4	11	
136.	Barde Mansibsanjay	28	7	4	11	
137.	Barmade Chetan Laxman	29	7	4	11	
138.	Bhalerao Sanjana Raju	34	9	4	13	
139.	Bhand Pratibha Sanjay	33	8	4	12	
140.	12Bhange Hariom Dattu	32	8	4	12	
141.	Bhartal Sachin Ramesh	30	8	4	12	
142.	Bhendekar Sushmita Anil	31	8	4	12	
143.	Bhosale Pradnya Anil	31	8	4	12	
144.	Bodhak Snehal Arun	30	8	4	12	
145.	Borude Aniket Ashok	AB	AB	AB	AB	
146.	Bramharakshas Subhadra Gautam	31	8	4	12	
147.	Chabukswar Riya Dilip	30	8	4	12	
148.	Chaudhari Arti Baban	29	7	4	11	
149.	Chavan Sakshi Kondiram	35	9	4	13	
150.	Chavan Yuvraj Santosh	28	7	4	11	
151.	Chavhanke Payal Dattu	31	8	4	12	
152.	Chide Vaibhavi Sanjay	31	8	4	12	
153.	Dange Rajashri Rajendra	33	8	4	12	
154.	Darandale Gauri Shivaji	32	8	4	12	
155.	Dhokane Chaitali Babasaheb	33	8	4	12	
156.	Dhokte Soham Gajanan	32	8	4	12	



157.	Dongare Shejal Prabhakar	32	8	4	12
158.	Dumbre Atharva Namdev	29	7	4	11
159.	Dushing Saurabh Pradip	32	8	4	12
160.	Gadekar Sanjana Shantaram	34	9	4	13
161.	Gaikwad Rina Vijay	33	8	4	12
162.	Gaikwad Swapnali Ganesh	33	8	4	12
163.	Gaiwal Sanika Dadasaheb	33	8	4	12
164.	Ghodke Pratiksha Mangesh	31	8	4	12
165.	Ghogare Atharva Madhukar	24	7	4	11
166.	Ghorpade Ishwari Shriniwas	32	8	4	12
167.	Gire Nishigandha Ramprasad	30	8	4	12
168.	Girhe Jayraj Subhash	30	8	4	12
169.	Golhar Prajakata Anjabapu	AB	AB	AB	AB
170.	Gore Vikas Jalindar	30	8	4	12
171.	Guldagad Siddharth Dinkar	27	7	4	11
172.	Gunjal Vaishnavi Ashok	33	8	4	12
173.	Gunjkar Vaibhav Janardhan	32	8	4	12
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207.	More Om Sachin	29	7	4	11
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227.	Salunke Swarup Ganesh	29	7	4	11
228.	Sapte Sakshi Chandrakant	30	8		12
229.	Shaikh Aman Sattar	31	8	4	12
230.	Shaikh Saad Samir	31	8	4	12



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232.	Shinde Aditi Harichandra	30	8	4	12
233.	Shinde Karan Santosh	30	8	4	12
234.	Shinde Samruddhi Rajendra	31	8	4	12
235.	Shinde Saurabh Sachin	25	7	4	11
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238.	Solanke Shailesh Suryakant	31	8	4	12
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253.	Ware Sangam Parmeshwar	27	7	4	11
126	Yadav Aditya Arunkumar	27	7	4	11
127	Zagade Ashwini Suresh	28	7	4	11
128	Zite Sonali Laxman	26	7	4	11



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PRAVARA RURAL EDUCATION SOCIETY'S

PRAVARA RURAL COLLEGE
OF PHARMACY

LONI



PRAVARA RURAL EDUCATION SOCIETY'S

PRAVARA RURAL COLLEGE
OF PHARMACY

LONI

PRAVARA RURAL COLLEGE OF PHARMACY, LONI

B. PHARMACY

REMEDIAL CLASS TIME TABLE 2023-24

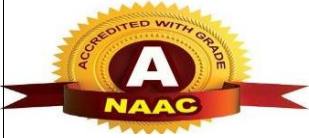
TERM I ODD SEMESTER

TIME	DAY: EVERY SATURDAY			
	FIRST YEAR [w. e. f. 06.04.2024]	SECOND YEAR [w. e. f. 06.04.2024]	THIRD YEAR [w. e. f. 10.02.2024]	FINAL YEAR [w. e. f. 10.02.2024]
10.00 -11.00	Pceu I / PSG	P Micro/ MPM	Pcog & Phyto II/ PDB	IMA/ MDS
11.00-12.00	HAP I / RDG	POC II / SDMG	Medichem II/ SDMG	Pcy Practice/ APP
12.00-1.00	PIC / MSB	PP I/ KVD	PJ / PSB	NDDS/ SDMN
LUNCH BREAK				
2.00-3.00	PA I / ASD	PE / TSN	Pcol II/ SBD	IP II/ ISN
3.00-4.00	-----	-----	IP I/ SLB	-----


Academic I/C
Academic Incharge
Pravara Rural College of Pharmacy
Pravaranagar, Tal. Rahuri, Dist. Akola-431001




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Pravara Rural College of Pharmacy
Pravaranagar, A/p.Loni-413716



Remedial Class Record-Attendance Sheet

Academic Year: - 2023-2024

Class:- S.Y.B Pharm Semester:- III Name of Subject:- Physical Pharmaceutics
Subject Teacher:- Ms. E.B. Vikhe I

Roll No	Name of the Student	11/11/2023	18/11/2023	25/11/2023	2/12/2023	9/12/2023	16/12/2023	23/12/2023		
1.	Bagal Rohit	1	2	A	A	3	4	5		
2.	Bairagi Shweta	A	1	2	A	3	4	5		
3.	Borde Mansi	A	1	2	3	4	5	6		
4.	Bormade Ushan	A	1	2	3	4	5	6		
5.	Dhokane Atharva	A	A	1	2	3	4	5		
6.	Konde Satvik	A	A	1	2	3	4	A		
7.	Kulkarni Parth	1	2	3	4	5	6	7		
8.	Ladhe Srujan	A	1	2	3	A	4	5		
9.	Mare Akash	1	2	3	4	5	6	7		
10.	Shinde Sourabh	1	A	2	3	4	5	6		
11.	Vikhe Atharva	1	2	3	4	5	6	7		
12.	Vishu Prerna	1	2	3	4	5	6	7		
13.	Yadav Aditya	1	2	3	A	4	5	6		

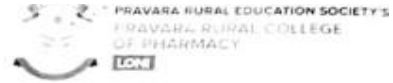
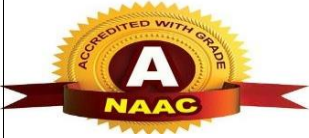

Subject Teacher








Academic Dean


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Date	Topic Taught	Signature of the Subject Incharge
11/11/2023	- factors affecting solubility of drugs	 KBV
18/11/2023	- States of matter - eutectic mixtures,	 KBV
25/11/2023	- One component, 2 component and 3 component systems.	 KBV
2/12/2023	- ternary solutions, surface tension kinetic velocity	 KBV
9/12/2023	- Interfacial phenomena, factors affecting surface tension. methods to determine surface tension	 KBV
16/12/2023	- surface free area, surface energy, frendlich langmuir constant	 KBV
23/12/2023	- vapour pressure, sublimation types of complexation.	


Subject Teacher
Mrs. K. B. Vithal

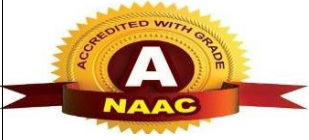

Academic Dean


Principal





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Pravara Rural College of Pharmacy
Pravaranagar, A/p. Loni-413 736



Remedial Class Record

Academic Year: - 2023-24

Class: S.Y.B. Pharm.

Semester: III

Subject Teacher: Mrs. E. B. Vichhe

Name of Subject: PP-I

Sr.No.	Name of The Student	Number of Class Conducted	Previous Class Test/Sessional Marks	Progress/ Marks After remedial coaching
1.	Bogal rohit	5	5	8
2.	Bairagi shweta	5	7	10
3.	Bande Mansi	6	3	10
4.	Barnade chetan	6	7	7
5.	Ghogare Atharva	5	4	7
6.	Kanade satvik	4	7	8
7.	Killedar parth	7	5	7
8.	Landhe suraj	5	2	8
9.	More Atash	7	5	7

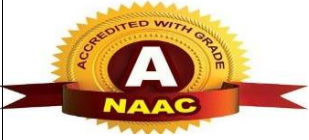
Subject in charge

Academic in charge



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Remedial Class Record

Class:- S.Y.B. Pharma

Academic Year:- 2023-24

Semester:- III

Subject Teacher:- Mrs. J.B. Vichhe

Name of Subject:- PP I

Sr No.	Name of The Students	Number of Class Conducted	Previous Class Test/Sessional Marks	Progress/ Marks After remedial coaching
1.	Shinde Saavabh	5	9	9
2.	Nilhe Athava	7	7	7
3.	Yadvi vishe prerna	7	5	8
4.	Yadav Aditya	6	7	8
5.				
6.				
7.				
8.				
9.				

Academic in charge

Subject in charge



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University Question Papers

Total No. of Questions : 3]

SEAT No. : **P8909**

[6110]-490

[Total No. of Pages : 2

S.Y. B. Pharmacy**BP302T : PHYSICAL PHARMACEUTICS - I
(2019 Pattern) (Semester - III)***Time : 3 Hours]**[Max. Marks : 75**Instructions to the candidates:*

- 1) *All questions are compulsory.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right indicate full marks.*

Q1) Answer any five:**[5×3=15]**

- a) What are optically active substances?
- b) Define critical constants with examples.
- c) Explain mechanism of detergency.
- d) Explain the Fick's first law of diffusion.
- e) State Bragg's equation.
- f) What do you understand by buffer capacity?
- g) Explain significance of van der Waal's constants for real gases.

Q2) Attempt any two:**[2×10=20]**

- a) Elaborate on Raoult's law and its deviations with the help of examples.
- b) Explain principle of capillary rise method and drop pipette method for determination of surface tension. Write a note on spreading coefficient.
- c) Classify surfactants with examples. Give HLB scale and write a note on micellar solubilisation.
- d) Explain Nernst's distribution law and significance of partition coefficient.

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Q3) Answer any eight.

[8×5=40]

- a) Explain phase diagram of phenol water system.
- b) Explain about different methods for pH determination.
- c) Write a note on dissociation constants and its applications in pharmacy.
- d) Write a note on polymorphism.
- e) Explain Freundlich & Langmuir's adsorption isotherms.
- f) Significance of biological buffers.
- g) Enlist factors affecting solubility of gases in liquids.
- h) Glass transition temperature.
- i) Elaborate on colligative properties.
- j) Explain principle of liquefied propellant systems in aerosols.



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P-870

[Total No. of Pages : 2]

[6019]-3012
S.Y. B. Pharmacy
BP 302T : PHYSICAL PHARMACEUTICS - I
(2019 Pattern) (Semester - III)

Time : 3 Hours]

[Max. Marks : 75

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.

Q1) Objective Type Questions (Answer Any Five) :

[15]

- a) Give application of distribution law.
- b) Write in brief about solubility expressive.
- c) What you know about soresens pH scale?
- d) Define Buffer capacity. Enlist the methods to determine it.
- e) Define surface tension. Enlist the factors affecting on it.
- f) Write pharmaceutical application of protein drug binding.
- g) Application of gases in liquid in pharmacy.

Q2) Long Answer Question (Any Two) :

[2 × 10 = 20]

- a) Liquification of gases. Factors & methods.
- b) Factors affecting on solubility of solid in liquids.
- c) Describe crystals in details along with different method for determination.
- d) Discuss in details methods for complex formation and its stability constant.

P.T.O.



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Q3) Short Answer Question (Any Eight) :

[8 × 5 = 40]

- a) HLB scale - Application & methods.
- b) Eutetic mixture.
- c) Aerosols preparation.
- d) Polymorphism.
- e) Solubility Parameters
- f) Complexation in Pharmacy.
- g) Measurement of surface tension.
- h) Tonisity adjustment.
- i) Gibbs phase Rule.
- j) Surface active agent.

▽▽▽▽



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Total No. of Questions : 3]

PA-864SEAT No. :

[Total No. of Pages : 2

[5940]-3002
S.Y. B. Pharmacy
PHYSICAL PHARMACEUTICS - I
(2019 Pattern) (Semester - III) (BP 302 T)

*Time : 3 Hours]**[Max. Marks : 75**Instructions to the candidates:*

- 1) *All questions are compulsory.*
- 2) *Figures to the right indicate full marks.*
- 3) *Neat diagrams must be drawn wherever necessary.*

Q1) Attempt any five.**[5×3=15]**

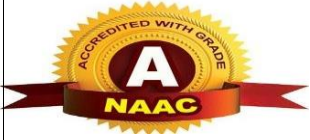
- a) Explain properties of ideal gases.
- b) State the Bragg's equation.
- c) Explain significance of vander Waal's constants for real gases.
- d) State Fick's first law of diffusion.
- e) Give pharmaceutical applications of phase diagram of three component systems.
- f) Describe Sorensen's pH scale.
- g) Write about dielectric constant and dipole moment.

Q2) Answers any two:**[2×10=20]**

- a) Explain principles and methods of liquefaction of gases. Write about working of aerosols.
- b) Explain Gibb's phase rule. Explain 2 - component system using phase diagrams.
- c) Elaborate on Raoult's law and its deviations with examples.
- d) Explain principle of capillary rise method and drop pipette method for determination of surface tension. Add a note on spreading coefficient.



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Q3) Answers any eight:

[8×5=40]

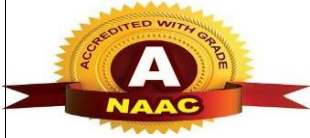
- a) Polymorphism.
- b) One component system.
- c) Pharmaceutical & biological buffers.
- d) Glass transition temperature.
- e) Protein binding.
- f) Du Nioy ring method for determination of surface tension.
- g) Solute-solvent interactions.
- h) Adsorption isotherms.
- i) Methods of crystal analysis.
- j) Surface free energy.

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Total No. of Questions : 3]

SEAT No. :

P934

[Total No. of Pages : 2

[5854]-3002

S.Y. B. Pharmacy

PHYSICAL PHARMACEUTICS - I
(2019 Pattern) (Semester - III) (BP302T)

Time : 3 Hours]

[Max. Marks : 75

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- 3) Neat diagrams must be drawn wherever necessary.

Q1) Attempt any five:

[5×3=15]

- a) Explain Fick's first law of diffusion.
- b) Define critical temperature, critical pressure and critical volume.
- c) Explain mechanism of detergency.
- d) What are optically active substances?
- e) Classify complexes.
- f) What do you understand by buffer capacity?
- g) Explain dipole-dipole interactions.

OR

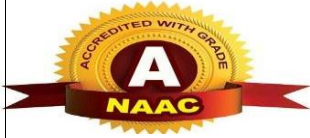
Q2) Attempt any two:

[2×10=20]

- a) Elaborate Raoult's law and explain its deviations.
- b) Explain Nernst's distribution law and significance of partition coefficient.
- c) Classify surfactants. Give HLB scale and write a note on micellar solubilisation.
- d) Enlist methods of analysis of complexes. Explain any one method. Enumerate applications of complexation.



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Q3) Attempt any eight :

[8×5=40]

- a) Explain two component system with phase diagram.
- b) Write a note on polymorphism.
- c) Write a note on dissociation constants and its applications.
- d) Explain different methods of pH determination.
- e) Explain various types of isotherms.
- f) Explain principle of liquefied propellants in aerosols.
- g) Enlist factors affecting solubility of gases in liquids.
- h) Write a note on Gibb's phase rule.
- i) Elaborate on colligative properties.
- j) Give significance of biological buffers.



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Model Answers

1. Write a note on Polymorphism?

Polymorphism is the ability of the given chemical composition to crystallize in more than one form. It is the result of changes in temperature or pressure. In some cases, both the varied structures of such chemical substances are is polymorphs or polymorphic forms.

Types of Polymorphism

Solids can exist as crystalline, amorphous, solvate (hydrate), and desolvated (dehydrated) forms. Complicating this situation is the fact that crystalline solids (and solvates/hydrates and desolvated/dehydrated solvates/hydrates) can exist in what is known as polymorphs. Crystals exist with the molecules arranged in a repeating pattern with an identifiable symmetry.

However, there can be more than one possible repeating pattern for many drugs. This can be demonstrated by visualizing a number of identical Lego pieces of a specific shape. Each Lego piece represents a drug molecule. These individual Lego pieces can be assembled in several ways to form different symmetrical patterns. Each of the different patterns contains the same number and type of individual Lego pieces.

Polymorphism is quite common for the same material to crystallize in different (more than one) arrangements of molecules in the crystal. Polymorphism can be classified into two types according to their stability with respect to the different ranges of temperature and pressure.

1. Monotropic System

Only one polymorph is stable at all reasonable temperatures.e.g. metolazone

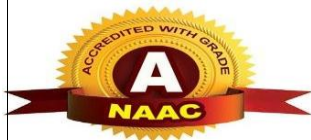
2. Enantiotropic system

One polymorph is stable over one temperature range, another polymorph is stable over a different temperature range – e.g. carbamazepine and acetazolamide.

2. Define Gibbs Phase Rule : The Gibbs phase rule is a relationship that



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2. describes the number of phases in a system and the number of thermodynamic degrees of freedom that can be changed without changing the number of phases. It is expressed as the equation

$$F=C-P+2 \quad , \text{ where:}$$

- F: is the number of degrees of freedom
- C: is the number of components
- P: is the number of phase

3. Elaborate on Colligative Properties

Colligative properties are physical properties of solutions that depend on the **number of solute particles** in a given amount of solvent, rather than the identity or chemical nature of the solute particles. These properties are significant in understanding how the presence of solute particles affects the behavior of the solvent.

The four primary colligative properties are:

1. Vapor Pressure Lowering When a non-volatile solute is added to a solvent, the vapor pressure of the solvent decreases. This occurs because the solute particles occupy space at the surface of the liquid, reducing the number of solvent molecules available to escape into the vapor phase. This is described by **Raoult's Law**, which states that the vapor pressure of a solvent in a solution is directly proportional to the mole fraction of the solvent.

2. Boiling Point Elevation The addition of a solute to a solvent increases the boiling point of the solution compared to the pure solvent. This happens because the vapor pressure of the solution is lowered, meaning more heat is required to reach the vapor pressure equal to the external atmospheric pressure, which defines the boiling point. The extent of the boiling point elevation is directly proportional to the molality (mmm) of the solute.

3. Freezing Point Depression When a solute is dissolved in a solvent, the freezing point of the solution is lower than that of the pure solvent. This is because the solute interferes with the solvent molecules' ability to form a solid structure. The freezing point depression is similarly proportional to the molality of the solute.

This phenomenon is exploited in practical applications such as using salt to melt ice on roads.



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4. **Osmotic Pressure:** Osmotic pressure is the pressure required to stop the flow of solvent molecules through a semipermeable membrane from a region of lower solute concentration to a region of higher solute concentration.

Give the Significance of Biological Buffers

Biological buffers play a critical role in maintaining the **pH stability** of biological systems. They are solutions that resist changes in pH when small amounts of acid or base are added. In living organisms, maintaining a constant pH is essential for various biochemical processes, as many enzymes and proteins are sensitive to even small changes in pH.

1. Maintaining Enzyme Activity

Enzymes, which catalyze biochemical reactions, are highly sensitive to pH. Most enzymes have an optimal pH at which they function best. For instance, pepsin, a digestive enzyme, functions optimally in the acidic environment of the stomach (around pH 1.5-2), while other enzymes, like amylase, operate in more neutral environments (around pH 7). A buffer system helps maintain the pH within the necessary range for enzyme function. Even slight deviations in pH can denature enzymes or alter their activity.

2. Stabilizing Cellular Environment

Cells depend on buffers to regulate the pH of their internal and external environments. Within cells, metabolic reactions produce acids and bases that could drastically alter the pH if not for the buffering systems. Biological buffers ensure that the cytoplasm, organelles, and extracellular fluids (like blood) maintain a stable pH, essential for cell viability and function.

3. Blood pH Regulation

The human body tightly regulates blood pH, typically between 7.35 and 7.45. This is accomplished by the **bicarbonate buffer system** ($\text{HCO}_3^-/\text{H}_2\text{CO}_3$). When blood becomes too acidic, bicarbonate ions (HCO_3^-) neutralize excess hydrogen ions (H^+) to form carbonic acid (H_2CO_3), which is then converted to carbon dioxide and water and exhaled by the lungs. Conversely, when the blood becomes too basic, carbonic acid dissociates into hydrogen ions and bicarbonate, thereby stabilizing the pH. This system allows the body to counteract pH changes caused by metabolic processes, preventing dangerous conditions like acidosis or alkalosis.



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4. Regulation of Carbon Dioxide Level: Buffers also help manage the effects of carbon dioxide (CO_2) levels in the body. CO_2 , a byproduct of cellular respiration, reacts with water to form carbonic acid (H_2CO_3), which can lower pH if not regulated. Biological buffers maintain the balance of CO_2 levels and, by extension, blood pH. The lungs and kidneys play an important role in this process, with the lungs expelling CO_2 and the kidneys excreting or retaining bicarbonate.

5. Ensuring Proper Function of Proteins

Proteins, which perform a wide range of functions (e.g., structural, enzymatic, and transport roles), are highly pH-sensitive. Their structure can be altered by changes in pH, affecting their function. Biological buffers ensure that the proteins remain in the right conformations by keeping the pH stable, thus preserving their functionality.

6. Supporting Cellular Respiration and Metabolism

Buffers help maintain the pH within narrow limits to support vital metabolic processes. For example, glycolysis, the citric acid cycle, and oxidative phosphorylation involve pH-sensitive enzymes. Buffers in the cytoplasm and mitochondria help keep these processes running efficiently by preventing shifts in pH that could disrupt energy production.

7. Buffers in Laboratory and Medical Applications

Biological buffers are essential in research and clinical settings for maintaining the pH of cell cultures, biochemical assays, and drug formulations. For example, phosphate-buffered saline (PBS) is widely used in biological experiments to mimic the physiological conditions of cells.

Common Biological Buffers:

- **Bicarbonate Buffer ($\text{HCO}_3^-/\text{H}_2\text{CO}_3$):** Major buffer system in blood.
- **Phosphate Buffer ($\text{H}_2\text{PO}_4^-/\text{HPO}_4^{2-}$):** Functions in intracellular fluids and kidneys.
- **Protein Buffers:** Amino acids in proteins act as buffers in intracellular and extracellular fluids.
- **Hemoglobin Buffer:** Plays a role in buffering blood pH by binding to hydrogen ions.

Biological buffers are indispensable for maintaining pH balance in organisms, ensuring optimal conditions for enzymatic activity, cellular respiration, and the stability of vital processes. Their role in maintaining homeostasis is crucial for life.

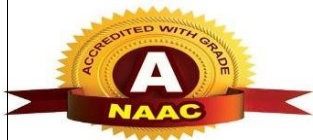


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Competitive Exam Guidance Seminar/Webinar/Training/ Workshops: 2023-24

S r. N o.	Activities / Event Name	Date /Day	Name of company with Address	Name of experts	Stack holder (student participate) Branch, Year,	No of Students Participated	Outcome of Event
1	Webinar on “How to crack GPAT Exam”	04.07. 2023	Pharmastar Academy	Mr.vijay kumar chakote,	T.Y & Final year B.Pharm	UG-67	“students should learn about various Strategy for GPAT & NIPER Preparation”
2	Seminar on How to take your career to next level of clinical research	31.07. 2023	Indian Institute of clinical Research & Management, Nagpur.	Mr.Ravindra Shirsath,	Final Year B.Pharm & F.Y.Pharm-D	UG-55	Students should learn about basics of clinical research and pharmacovigilance.
3	Webinar on Validation management lifecycle”.	20.08. 2023	Fresenius Kabi India Pvt.Ltd. Pune.	Mr.Sandip Jape	Final Year B.Pharm & M.Pharm	UG & PG-77	Students should learn about validation management lifecycle.



4.	“Seminar on GPAT and NIPER preparation 2024”	22.08.2023	Academy of NIPER Aspirants (ANA).	Dr.Machindra Bochare,	Third & Final Year B.Pharm	UG-103	“students should learn about various Strategy for GPAT & NIPER Preparation 2024”
5.	Webinar on Regulatory Medical Writing: A lucrative career option”.	26.08.2023	Cipla,Mumbai	Ms.Divya Wagh	Final Year B.Pharm & M.Pharm	UG & PG-131	Students should learn about basics of medical, and regulatory writing.
6.	“Seminar on career guidance GPAT preparation and soft skill development ”	12.09.2023	GPAT Discussion Centre, Chattisgarh.	Mr.Peeyush Jaiswal	T.Y & Final year B.Pharm	UG-106	Students should learn about how to prepare for GPAT & NIPER 2024.
7	Seminar on “Insights of Pharmaceutical Industry”	18.09.2023	Glenmark Pharmaceuticals Ltd.Aurangabad.	Dr. Salim Patel,	Final year B.Pharm	UG-79	Students should learn about different departments of Pharm.industry.
8	Seminar on “Career platform after Pharmacy graduation”	20.09.2023	Motivational & Career speaker,Pune.	Mr.Sadep Patale,	Final year B.Pharm	UG-84	Students should learn about selection of career after graduation..



9.	Seminar on “Quality Mangement System”	20.10.2023	Glenmark Pharmace uticals Ltd.Auran gabad.	Mr.Satish Kharat	Final Year B.Pharm & M.Pharm	Ug & PG-92	Students Should learn about quality managemen t system in Pharmaceuti cal Industry
10	One day Workshop on “Unlocking the world of Clinical Research & Pharmacovi gilance-Career opportunitie s ahead”	28.10.2023	Dysmech Clinical Services Pvt.Ltd. Pune.	Dr. Archana Suryavan shi	Final Year B.Pharm & M.Pharm	Ug & PG-149	Students should learn about basics of clinical research, clinical Data Managemen t and pharmacovi gilance.
11	Seminar on “Industrial capabilities - are you ready to face the challenges?”	30.12.2023	Cipla Ltd., Indore	Mr.Ashish Zitshi	Final Year B.Pharm & M.Pharm	Ug & PG-85	Students should learn about what industrial capabilities are and how to face it.
12	Seminar on “Career Opportunitie s Abroad & Conduct of Foreign Language courses”	18.01.2024	Leo & Sagittarius consulting Pvt Ltd	Mr.Kavi Luthra	Final Year B.Pharm & M.Pharm & D.Pharm	Ug & PG-85	Students should aware about different career opportunitie s in abroad.



13	A one day Workshop on “GPAT & NIPER preparation 2024”	05.02.2024	Fundamental Pharmacy Pharmacy, Exam Guidance Center	Mr.Sachin Jadhav	Final Year B.Pharm & Third Year	UG-59	Students should learn about how to prepare for GPAT & NIPER 2024.
14	One day workshop on “Career Opportunities in Clinical Research and IT Healthcare Sector”	01.03.2024	Pacifix Research Organization, Pune	Mr.Sanjit Dhawale	Final Year B.Pharm & M.Pharm	Ug & PG-90	Students aware about various career opportunities in clinical research and IT healthcare sector



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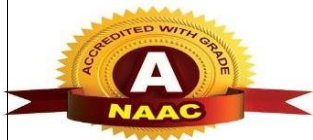


Mini Project Summary Academic Year 2023-2024

Sr.No	Name Of Student	Title	Guided By
1.	Agiwale Shreya Chiman	Biosynthesis Of Silver Nanoparticles Using Plant Extract Of 'Mucuna Pruriens'.	Mrs. Hemlata S. Bhawar
2.	Amartya Haribhau Aher	Biosynthesis Of Silver Nanoparticles Using Plant Extract Of Mucuna Pruriens	Bhawar Madam
3.	Aher Harshada Sudhakar	Derivatives Of Indole	Rohit Bhor Sir
4.	Andhale Nikita Shridhar	Synthesis, Characterization And In- Vitro Antiinflammatory Activity Of “4- Chloro-N2-(2-Chlorophenyl)-N1- (1h- Indol-1yl)Benzene-1,2- Diamine” Nucleus And Its Derivatives	Dr.Bhor
5.	Ansari Eram Tajamulhaq	Exploring 2-Aminobenzenethiol Derivatives Via In Silico Investigation & Molecular Docking For Major Depressive Disorder	Amol Dighe Sir
6.	Atre Bhakti Nanasaheb	Molecular Docking Of Lantana Camara Flavonoids On Antiinflammatory	Amol Dighe Sir
7.	Gayatri Balasaheb Avhad	In Silico Molecular Docking And Adme / Pharmacokinetic Prediction Studies Of Some Novel Thiadiazole Derivatives As Anticancer Agents.	Mr.Sagar Magar
8.	Vaishnavi Bagale	In-Silico Molecular Docking And Adme / Pharmacokinetic Prediction Studies Of Some Novel Thiadiazole Derivatives As Anticancer Agents”	S.D.Magar
9.	Bhalerao Rushikesh Bhauasaheb	Formulation And Evaluation Of Herbal Hand Wah	Dr. Mayur Bhosale
10.	Bhange Sarthak Anil	Formulation And Evaluation Of Polyherbal Hand Wash	Dr.Mayur Bhosale Sir



11.	Bhoknal Mayuri Rajesh	Preparation And Its Evaluation Of Herbal Mouthwash	Mrs. M.D.Sonawane Mam
12.	Chavan Sapna Ashok	Preparation And Its Evaluations Of Herbal Mouthwash	Mrs Sonawane Manisha Maam
13.			
14.	Dahifale Dnyaneshwari Raghunath	To Design In Silico Adme Screening And Molecular Docking Study Of Some Novel Phenothiazine Derivatives	Mr.Sanket Tambe
15.	Rutuja Sandeep Dere	To Design In Silico Adme Screening And Molecular Docking Study Of Some Novel Phenothiazine Derivatives	Sanket Tambe
16.	Dighe Jaideep Appasaheb	Preparation And Evaluation Of Hollow Microsphere	Mrs T S Nirmal
17.	Vishal Dighe	Preparation Of Hollow Microsphere	T. S Nirmal
18.	Gadade Pooja Nandakumar	Formulation And Evaluation Of Heel Repair Cream Using Turmeric And Mustard Oil	Ms. Payal Gawali
19.	Gadekar Aniket Chandrakant	Formulation And Evaluation Of Crack Heel Cream By Using Mustard Oil And Turmeric Extract	Pawal Gawali
20.	Gaikwad Aditya Shivaji	Formulation Development And Evaluation Of Herbal Soap Containing Aegle Marmelos Fruit And Azadirachta Indica : Antifungal Activity	Miss. Pratibha Bhalerao
21.	Gaikwad Nikita Prakash	Formulation Development And Evaluation Of Herbal Soap Containing Aegle Marmelose Fruit And Azadirachta Indica : Antifungal Activity	Miss. Pratibha Bhalerao
22.	Gajare Asawari Sham	Formulation And Evaluation Of Celecoxib Effervescent Tablet	Dr. Suhas Siddheshwar Sir
23.	Garad Sakshi Sharad	Formulation And Evaluation Of Celecoxib Effervescent Tablet.	Dr.Suhas Siddheshwar



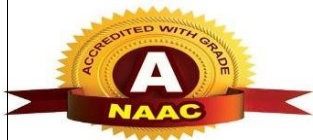
24.	Gawade Aditya Rajendra	Formulation Development And Evaluation Of Mucoadhesive Buccal Tablets Of Miconazole For Oral Candidiasis	Miss. Mhaske Manjusha
25.	Ghule Rupali Mahadev	Formulation Development And Evaluation Of Mucoadhesive Buccal Tablets Of Miconazole For Oral Candidiasis	Miss. Manjusha Mhaske
26.	Gite Shriram Kisan	Formulation And Evaluation Of Celecoxib Effervescent Tablets	Dr. Suhas Siddheshwar
27.	Aniket Eknathrao Gorshetwar	Formulation And Evaluation Of Heel Repair Cream By Using Turmeric And Mustard Oil	Miss. Payal Gawali
28.	Bhagyashri Sudin Jadhav	Formulation And Evaluation Of Nifedipine Capsule By Liquisolid Compact .	Dr. S.D. Mankar
29.	Awantika Narendra Kale	Foarmulation And Evaluation Of Liquid Solid Compact.	Dr S.D.Mankar
30.	Kangude Dnyanda Haushabapu.	Formulation And Evaluation Of Nifedipine Capsule By Liquisolid Technique.	Dr.S.D.Mankar.
31.	Kangune Dnyaneshwari Bhausahab	Pharmacognostical Phytochemical Analysis And WoundHealing Formulation Of Annona Squamosa Seeds	Prajwali Bhalerao
32.	Kedare Shraddha Raju	Wound Healing Activity Of Annona Squamosa	Prajwali Bhalerao Mam
33.	Khandagale Disha Appasaheb	Extraction And Analysis Of Bay Leaves And Mint And Formulation Of Herbal Lotion	Dr.Sunayana R.Vikhe
34.	Sayali Chaitanya Kharat	Formulation And Evaluation Of Herbal Lotion Using Mentha Piperta And Lourus Nobilis.	Dr.Sunanyana Vikhe Mam
35.	Kharde Akanksha Ramdas	Formulation And Evaluation Of Skin Brightening And Moisturizing Face Cream	Dr. Sunayana Vikhe
36.	Prachi Kishor Kharde	Formulation And Evaluation Of Skin Brightening And Moisturizing Cream	Dr. Sunayana Vikhe



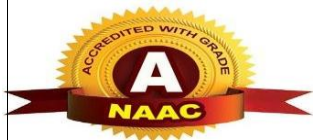
37.	Khose Vaishnavi Vijay	Formulation And Development Of Herbal Lotion And It's Evaluation	Dr.Sunayana Vikhe Mam
38.	Landge Madhuri Shivaji	“Pharmacognostical Phytochemical And Laxative Activity Of The Leaves Of Tamarindus Indica L. ”	Miss Prajwali Bhalerao
39.	Mane Sonali Dattatraya	Pharmacognostical Phytochemical And Laxative Activity Of The Leaves Of Tamarindus Indica L.	Miss.Prajwali Bhalerao
40.	Renuka Vijay Muntode	Pharmacognostical Phytochemical Analysis And WoundHealing Formulation Of Annona Squamosa Seeds ”	Prof Prajwali Bhalerao
41.	Mr.Musale Dhananjay Narendra,	Formulation Development Of Herbal Toothpaste & It's Evaluation	Dr.Arshu.P.Patel
42.	Nagare Rohit Dashrath	Formulation & Development Of Herbal Toothpaste And Its Evaluation	Dr. Arshu Patel
43.	Nawale Sejal Navnath	Formulation And Development Of Herbal Toothpaste And Its Evaluation	Dr.Arshu Patel Sir
44.	Nibe Chetan Dattatray	Formulation And Development Of Herbal Toothpaste And It's Evaluation	Dr.Arshu.P.Patel
45.	Nikam Unnati Sahebrao	Formulation And Development Of Herbal Toothpaste And It's Evaluation	Dr.Arshu Patel
46.	Patel Suhana Ajaj	Formulation, Evaluation & Comparative Study Of EffectsOf Superdisintergrant In Herbal Fast Dissolving Tablet Of Nyctanthes Arbor Tristis.	Mahesh H.Kolhe
47.	Patil Rohit Mohan	“Formulation,Evaluation & Comparative Study Of EffectsOf Super Disintegrants In Herbal Fast Dissolving Tablet Of Nyctanthes Arbor-Tristis.”	Mr.Mahesh Kolhe
48.	Pawar Tanishka Anil	A Comparative Analysis Of In-Process Quality Control Parameters Of Montelukast Sodium Tablets.	Dr. R K Godge
49.	Pawar Trupti Yogesh	Comparative Analysis Of Quality Control Parameters Of	Dr. Rahul Godge Sir



		Different Brands Of Montelukast Sodium Tablets	
50.	Pawar Vaishnavi Bhaskar	Formulation And Evaluation Of Meloxicam Ointment: A Comprehensive Study On Physicochemical Properties, Pre-Formulation Studies, And In Silico Molecular Docking Analysis	Prof. Kavita B. Vikhe
51.	Pimpale Swapnil Pandurang	“Formulation And Evaluation Of Meloxicam Ointment: A Comprehensive Study On Physicochemical Properties, Pre-Formulation Studies, And In Silico Molecular Docking Analysis”	Prof. Kavita B. Vikhe
52.	Pinjari Aman Siraj	Formulation Development & Evaluation Of Herbal Cream For Wound Healing Activities	Mrs. Snehal Vikhe Madam
53.	Putale Abhishek Rajendra	Formulation Development & Evaluation Of Herbal Cream For Wound Healing Activity.	Sneha A. Vikhe
54.	Rane Prashant Mangalsing	Formulation Development & Evaluation Of Herbal Cream For Wound Healing Activity	Sneha. A. Vikhe
55.	Rapol Mayuri Raju	Formulation And Evaluation Of Gummies Of Amaranthus Cruentus And Urtica Dioica	Miss. Snehal Bornare
56.	Salunke Sampada Santosh	Formulation And Evaluation Of Herbal Edible Gummy Of Amaranthus Cruentus And Urtica Dioica	Ms. Snehal Bornare
57.	Salve Pratik Sanjay	Title: Formulation & Evaluation Of Gummies Of Nettles Leaves And Amaranthus Cruentus	Miss. Snehal Bornare
58.	Sangale Pratiksha Prabhakar	Formulation Development And Evaluation Of Ointment For Anti-Inflammatory Activity	Mr. Shubham Mhaske
59.	Satpute Dnyaneshwari Rajkumar	Formulation, Development And Evaluation Of Ointment For Anti-Inflammatory Activity	Mr. Mhaske Shubham B.
60.	Shaikh Moin Rajmhammad	The Formulation, Development And Evaluation Of Ointment For Anti-	Mr. S. B Mhaske



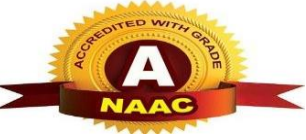
		Inflammatory Activity.	
61.	Shelke Jayashree Ashok	Antibiotics Audit : Enhancing Drug Utilization Practices	Dr.Gaurao Damre Sir
62.	Yash Bapusaheb Shelke	Materiovigilance On Cardiovascular Devices.	Dr. V. V. Bhone
63.	Shinde Sayali Pandurang	Antibiotic Audit: Enhancing Drug Utilisation Practices	Dr. Gaurao Damre Sir
64.	Shinde Yash Sunil	Materiovigilance For Cardiac Devices: Ensuring Safety In The Heart Of Healthcare	Dr. V V Bhone
65.	Sonawane Shubham Ramesh	Ayurvedic Herbal Churn: An Ancient Dosage Form To Improve Immunity And Digestion.	Dr Santosh Dighe
66.	Tambe Akanksha Sunil	Formulation And Dermal Evaluation Of Herbal Medicated Ointment And Scrub For Its Anti- Inflammatory, Anti-Microbial And Anti Acne Properties.	Mrs.Rajashri. D. Ghogare
67.	Tambe Nikita Machhindra	Formulation And Dermal Evaluation Of Herbal Medicated Ointment And Scrub For Its Anti- Inflammatory, Anti-Microbial And Anti Acne Properties.	Ms. Rajashree D. Ghogare
68.	Tambe Pornima Ramdas	Formulation And Dermal Evaluation Of Herbal Medicated Ointment And Scrub For Its Anti- Inflammatory, Anti-Microbial And Anti Acne Properties.	Mrs.Rajashree D. Ghogare
69.	Tarkase Sahil Bhausahed	Ayurvedic Herbal Churn : An Ancient Dosage Form To Improve Immunity And Digestion	S.B. Dighe
70.	Thete Bhakti Sharad	Ayurvedic Herbal Churn: An Ancient Dosage Form To Improve Immunity And Digestion	Dr.S.B.Dighe
71.	Vahadane Ruchika Sheshrao	Recovery And Adaptation Of Post Covid Survey	Dr.Sanjay Bhawar
72.	Shrutika Shantinath Vikhe	Materiovigilance For Cardiac Devices: Ensuring Safety In The Heart Of Healthcare	Dr. Vaibhav Bhone



73.	Wagh Pratik Laxman	Recovery And Adaptation Of Post Covid Survey	Dr. Sanjay Bhawar
74.	Wani Anushka Abasaheb	Formulation And Dermal Evaluation Of Herbal Medicated Ointment And Scrub For Its Anti-Inflammatory, Anti-Microbial And Anti Acne Properties.	Ms. Rajashree. D. Ghogare
75.	Wayal Saurav Dashrath	Antibiotics Audit Enhancing Drug Utilisation Practices	Dr. Gaurav Damre



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Project evaluation sheet:

Name of Internal Examiner: Mr. Phaske S.G

Date: 11/05/2024

Name of External Examiner: Mrs. Sneha A. Vikhe

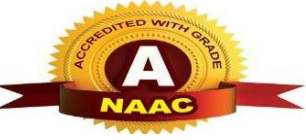
Sr. no.	Name of students	Topic	Evaluation of Dissertation Book				Evaluation of Presentation			Total (150 M)
			Objective(s) of the work done (15M)	Methodology adopted (20M)	Results and Discussions (20M)	Conclusions and Outcomes (20M)	Presentation of work (25M)	Communication skills (20M)	Question and answer skills (30M)	
1	Rone Proshad	for wound healing	15	15	18	17	22	16	25	128
2	Rutade Abhishek	formulation, description and evaluation ? Herbal cream for wound healing	15	15	18	17	22	17	25	129
3	Sangli Prashant	formulation, description and evaluation ? Ointment for	14	14	17	16	22	17	25	128
4	Sapate Dnyaneshwari	The anti-inflammatory activity.	14	14	14	16	22	17	25	128
5	Shalki main.	The anti-inflammatory activity	14	18	18	17	23	18	27	135

Phaske
Mr. Phaske S.G
Sign of Internal Examiner

Vikhe
Mrs. Sneha A. Vikhe
Sign of External Examiner



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Project evaluation sheet:

Name of Internal Examiner: Mr. M. H. Kohle

Name of External Examiner: Mrs. Kavita Vike

Date: 11/5/2024

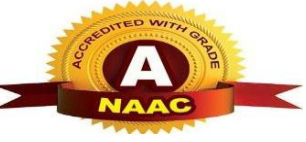
Sr. no.	Name of students	Topic	Evaluation of Dissertation Book				Evaluation of Presentation			Total (150 M)
			Objective(s) of the work done (15M)	Methodology adopted (20M)	Results and Discussions (20M)	Conclusions and Outcomes (20M)	Presentation of work (25M)	Communication skills (20M)	Question and answer skills (30M)	
1	Patel Surbha Raj	Formulation, Evaluation & comparative	15	16	18	18	23	17	25	132
2	Patil Rohit Mohan	Study of effect of superdisintegrant in herbal FDT of NAT.	15	16	18	17	22	16	24	128
3	Salyanke Sangada	Formulation & Evaluation of	15	16	18	18	22	17	25	131
4	Kopel Mayur	Summary of Herbal plants and Amaranthus	15	17	18	18	23	17	25	133
5	Prohik Solvi	and Amaranthus, Cruentus.	14	14	15	17	22	16	22	120

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Project evaluation sheet: Research Project Sem VIII 2023-24.

Date: 14/5/2024



Name of Internal Examiner: Dr. Sunayana R. Yelke.

Name of External Examiner: Mrs. Nilima Mani.

Roll No.	Sr. no.	Name of students	Exam Seat No	Topic	Evaluation of Dissertation Book				Evaluation of Presentation			Total (150 M)
					Objective(s) of the work done (15M)	Methodology adopted (20M)	Results and Discussions (20M)	Conclusions and Outcomes (20M)	Presentation of work (25M)	Communication skills (20M)	Question and answer skills (30M)	
33	1	Khondagale Disha Appasahab	10174	Formulation & Evaluation of Herbal lotion	10	14	16	16	20	17	22	115
34	2	Khurat Sayali Chantanya	10175	Formulation & Evaluation of Herbal lotion.	09	14	15	16	20	17	21	112
37	3	Khose Vaishnavi Vilay	10184	Formulation and Evaluation of Herbal lotion	09	13	15	17	18	17	20	109
35	4	Kharde Prachi Kishor	10177	formulation evaluation skin brightening product containing face cream	13	18	19	19	23	19	27	138
36	5	Kharde Akanksha Randas	10176	formulation & Evaluation of skin brightening & moisturizing face cream.	13	19	18	18	23	19	28	138.

Sign of Internal Examiner
(Dr. S. R. Yelke)

Sign of External Examiner
(Mrs. Nilima Mani)



(Signature)

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Project evaluation sheet: Module no: 8 (Pharmacovigilance)

Date: 11/05/2024

Name of Internal Examiner: Ms. Rajashree D. Ghogare

Name of External Examiner: Mr. Santosh B. Digh

Sr. no.	Topic Name of students	Name Topic	Evaluation of Dissertation Book				Evaluation of Presentation			Total (150 M)
			Objective(s) of the work done (15M)	Methodology adopted (20M)	Results and Discussions (20M)	Conclusions and Outcomes (20M)	Presentation of work (25M)	Communication skills (20M)	Question and answer skills (30M)	
1	Formulation & Evaluation of Herbal medicine	Tambe Nikita M.	14	19	19	20	25	18	29	143
2	Medicated ointment	Tambe Parvina R.	14	19	19	20	25	19	28	143
3	System for it's Antibiotic activity	Maani Anurika A.	14	19	19	20	24	17	28	141
4	Antimicrobial properties of Antifone s.	Tambe Akanksha	14	19	19	20	24	18	29	142
5										

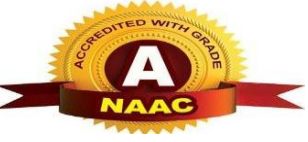
Sign of Internal Examiner
Ms. R. D. Ghogare

Sign of External Examiner
Dr. D. K. S. S.

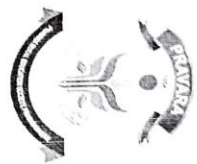


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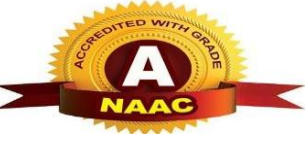
Dr. Sunayana Vikhe
Academic Incharge

Dr. Gaurav Damre
Sport Incharge

Dr. Sanjay B. Bhawar
Principal



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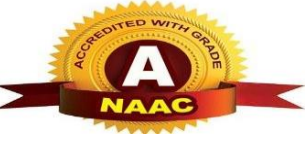

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Sport Incharge


Dr. Sanjay B. Bhavwar
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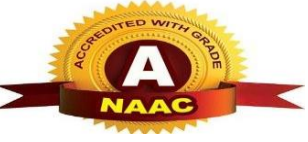

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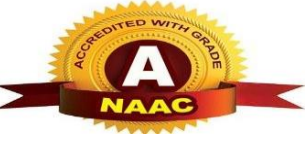

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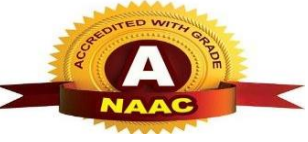
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Sport Incharge

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Dr. Sunayana Vikhe
Academic Incharge

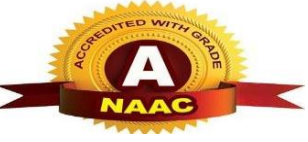
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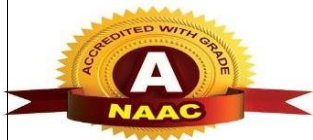
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Student Participation in Co-curricular and Extra-curricular Activities.

Sr. No	Name of the Activity	Date	Organized By
1.	Webinar on validation management lifecycle	20/08/2023	Pravara Rural College of Pharmacy Loni
2.	Ganpati Festival	19/09/2023	College Campus
3.	Teacher's Day	6/09/2023	College Campus
4.	Shiv Jayanti	19/02/2024	Pravara Rural College of Pharmacy Loni
5.	Farewell Party	29/04/2024	Seminar Hall Pravara Rural College of Pharmacy Loni
6.	AICTE Sponsored Three days National E-conference on "Regulation of e- Pharmacy in India"	28-30/08/2023	IQAC, R&D Cell Pravara Rural College of Pharmacy, Loni
7.	First aid kit Donation and tree plantation" activity	18/09/2023	Durgapur
8.	Health Awareness Program on the Occasion of world Pharmacist Day	25/09/2023	Loni Gram Panchayat, Pravaranagar
9	Demonstration of use of Hand wash and aware the students about daily healthy habits on occasion of 'Pharmacist Day" at Brilliant Birds School, Loni	25/09/2023	Brilliant Birds School
10	Avishkar Research and innovation competition 2023	27/09/2023	Pravara Rural College of Pharmacy, Loni
11	Cleaning Drive On the Occasion of gandhi jayanti	03/10/2023	College Campus Garden Area and Playground.



12.	A Webinar on Wealth Awareness	14/10/2023	ONLINE
13.	A Seminar on Women Safety and Laws	16/10/2023	Seminar Hall Pravara Rural College of Pharmacy Loni
14.	National Unity Day	30/10/2023	Seminar Hall Pravara Rural College of Pharmacy Loni
15.	Yoga Day	21/06/2023	Pravara Rural College of Pharmacy, Loni



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