

Rayat Shikshan Sanstha's

**Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)**

**Department of Chemistry**

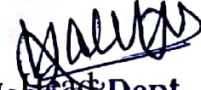
**(2023-24)**

**Notice**

All the students of B.Sc. Part III are hereby informed that the short term course 'Preparation of Household chemicals' will be started from 6<sup>th</sup> September 2023 as per the given time table. Its compulsory to all B.Sc. Part III students.



Coordinator



Head of Dept.




Department of Chemistry

Dr. Patangrao Kadam Mahavidhyalaya  
Ramanandnagar (Burli)


**Rayat Shikshan Sanstha's**  
**Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)**  
**Department of Chemistry**  
**Short Term Course 'Preparation of Household Chemicals'**  
**2023-24**  
**Constitution of committee**

During the academic year 2023-24 the department of Chemistry has decided to run short term course on 'Preparation of Household chemicals' for B.Sc. part III students. The board of studies for above said course is tabulated as below;

**BORD OF STUDIES**

Sr. No.	Name of the Member	Designation	Signature
1	Mr. D.P. Gawari	Chairman	
2	Mr. D. A. Sasane	Member	
3	Mr. Y. R. Sable	Member	
4	Mr. V. V. Nalawade	Member	

  
Coordinator

  
Head of Dept.  
Department of Chemistry  
Dr. Patangrao Kadam Mahavidhyalaya  
Ramanandnagar (Burli)

**Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)**

**Department of Chemistry**

**Short Term Course "Preparation of Household Chemicals"**

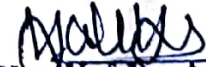
**(2023-24)**

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**Outcomes: -**

- To develop the skill of subject knowledge on applied basis and to Make availability of self-employment.
- To enable students to understand the basic principles of household chemical preparation, including safety protocols, ingredients selections.
- Safety Awareness: Students learn about the potential hazards of household chemicals and how to handle them safely to prevent accidents and injuries.
- Understanding of Chemical Properties: Participants gain knowledge about the properties of different household chemicals, including their uses, interactions, and safety considerations.
- Proper Mixing and Dilution Techniques: Students learn how to properly mix and dilute household chemicals to achieve desired cleaning, disinfecting, or pest control outcomes without compromising safety.
- Environmental Awareness: The course may emphasize the importance of environmentally friendly practices, such as proper disposal of chemicals and choosing eco-friendly alternatives.
- Practical Skills: Participants develop practical skills in preparing and using household chemicals effectively, including selecting appropriate products for specific tasks and following safety protocols.
- Risk Management: Students learn how to identify and mitigate risks associated with household chemical use, including recognizing warning labels, understanding Material Safety Data Sheets (MSDS), and implementing proper ventilation measures.

  
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**Paper- II :- Mechanism, precaution and cleaning action of household chemicals [ 30 Marks]**

**Unit I: - Soaps and detergents**

- **Soaps:-**
  - 1.1 Raw materials
  - 1.2 Types of soaps
  - 1.3 Manufacture of soaps, Hot Process
  - 1.4 Cleaning action of soaps
- **Detergents:-**
  - 1.5 Raw materials
  - 1.6 Types of detergents, Cationic, anionic, amphoteric and neutral.
  - 1.7 Preparation of teepol and deriphat.
  - 1.8 Comparison between soaps and detergents

**Unit II: - Phenols**

- 2.1 Physical properties,
- 2.2 Chemical properties
- 2.3 Uses

**Unit III: - Phenyl**

- 3.1 Preparation
- 3.2 Ingredients and uses
- 3.3 Advantage and drawback of phenyl.

**Paper- III :- Practicals [ 40 Marks ]**

- 1) Volumetric titration (2)
- 2) Conduct metric titration(2)
- 3) PH- metry (2)
- 4) Preparation of standard solutions(2)
- 5) Preparation of chromic acids
- 6) Preparation of candles
- 7) Preparation of phenyls
- 8) Preparation of dyes
- 9) Determination of sap value of oil.
- 10) Market survey of house hold chemicals

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Short Term Course 'Preparation of Household Chemicals'  
**Syllabus**

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**Paper – I Basic Concept of Household Chemicals**

**Unit I :- Domestic Chemicals**

- 1.1 Introduction of domestic chemicals
- 1.2 Sanitary acids
- 1.3 Phenyl
- 1.4 Liquid soaps; Lysol, Dettol savlon
- 1.5 Acid – Bases
- 1.6 General Introduction
- 1.7 Theory
- 1.8 Types
- 1.9 Cleaning action of acids and Handling and precautions

**Unit II :- Domestic chemicals**

- 2.1 Mole concept
- 2.2 Concentration
- 2.3 Units of concentration
- 2.4 Normality
- 2.5 Molarity
- 2.6 Molality
- 2.7 Mole Fraction
- 2.8 Percentage composition by Volume
- 2.9 Percentage composition by weight

**Unit III :- Domestic Titration**

- 3.1 General Introduction
- 3.2 Types of titration
- 3.3 Indicator
- 3.4 Theory and types

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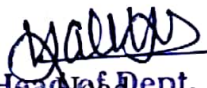
Short Term Course "Preparation of Household Chemicals"

Student List (2023-24)

Sr. No.	Roll No.	Name of the student
1	1851	BUCHADE SAKSHI DAYANAND
2	1852	CHANNE AARTI DIPAK
3	1853	CHAVAN SUMIT SUNIL
4	1854	CHINCHANE SANIKA HINDURAV
5	1855	HOGALE PRAMOD PANDURANG
6	1856	INGALE SHITAL POPAT
7	1857	JADHAV KIRAN SURESH
8	1858	JADHAV SHUBHAM RAJARAM
9	1859	KABUGADE NANDINI SANJAY
10	1860	KADAM SANKET MARUTI
11	1861	KOLI SANKET RAJENDRA
12	1862	KUMBHAR RAJ DHANAJI
13	1863	LAD PRANAV SATISH
14	1864	MADANE ANJALI SHANKAR
15	1865	MAHIND PRATIK SAMBHAJI
16	1866	MOHITE HRISHIKESH BHARAT
17	1867	MOHITE SANKET SANJAY
18	1868	MOHITE VAISHNAVI DADASO
19	1869	MORE SUYASH SUNIL
20	1870	NALAWADE SARIKA SANJAY
21	1871	NALAWADE SAURABH SUNIL
22	1872	NERLEKAR OMKAR NANDKUMAR
23	1873	PATIL DIPALI PRAKASH
24	1874	PATIL PRASHANT NANDKUMAR
25	1875	PATIL PRUTHVIRAJ DHANANJAY

26	1876	PATIL PRUTHVIRAJ PRAVIN
27	1877	PATIL SAHIL DHANAJI
28	1878	PATIL SUDHIR HANMANT
29	1879	PAWAR SAKSHI SATISH
30	1880	PAWAR SANDESH MAHESH
31	1881	PAWAR SANIKA ULHAS
32	1882	PISAL DIGVIJAY KAILAS
33	1883	PISAL SURAJ SURESH
34	1884	SALUNKHE SHIVANM PRAVIN
35	1885	SALUNKHE VISHWAJIT VIJAY
36	1886	SUTAR NAMRATA SURYAKANT
37	1887	TIRMARE KUNAL MAHENDRA
38	1888	WAINGADE SAHIL CHANDRAKANT
39	1889	YADAV PRAJVAL SAMPATRAO

  
Coordinator

  
Head of Dept.  
Department of Chemistry  
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Ramanandnagar (Burla)

**Rayat Shikshan Sanstha's**  
**Dr. Patangrao Kadam Mahavidyalaya Ramanandnagar, (Burli)**  
 Department of Chemistry  
**Short term Course 'Preparation of Household Chemicals'**  
Time Table (2023-24)

**B.Sc. III Chemistry - Theory**

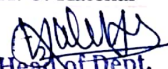
**Time- 01:00 to 02:00 pm**

Sr. No.	Day& Date	Name of the Lecturer	Sr. No.	Day& Date	Name of the Lecturer
1	06.09.2023	Mr. Y. R. Sable	13	19.10.2023	Mr. Y. R. Sable
2	07.09.2023	Mr. D. P. Gawari	14	25.10.2023	Mr. D. P. Gawari
3	13.09.2023	Mr. D.A. Sasane	15	26.10.2023	Mr. D.A. Sasane
4	14.09.2023	Mr. K. S. Kalekar	16	01.11.2023	Mr. K. S. Kalekar
5	20.09.2023	Mr. Y. R. Sable	17	02.11.2023	Mr. Y. R. Sable
6	21.09.2023	Mr. D. P. Gawari	18	08.11.2023	Mr. D. P. Gawari
7	27.09.2023	Mr. D.A. Sasane	19	09.11.2023	Mr. D.A. Sasane
8	04.10.2023	Mr. K. S. Kalekar	20	23.11.2023	Mr. K. S. Kalekar
9	05.10.2023	Mr. Y. R. Sable	21	29.11.2023	Mr. Y. R. Sable
10	11.10.2023	Mr. D. P. Gawari	22	30.11.2023	Mr. D. P. Gawari
11	12.10.2023	Mr. D.A. Sasane	23	06.12.2023	Mr. D.A. Sasane
12	18.10.2023	Mr. K. S. Kalekar	24	07.12.2023	Mr. K. S. Kalekar

**B.Sc. III Chemistry - Practical**

**Time- 01:00 to 02:00 pm**

Sr. No.	Day& Date	Name of the Lecturer	Sr. No.	Day& Date	Name of the Lecturer
1	06.09.2023	Mr. Y. R. Sable	5	19.10.2023	Mr. Y. R. Sable
2	07.09.2023	Mr. D. P. Gawari	6	25.10.2023	Mr. D. P. Gawari
3	13.09.2023	Mr. D.A. Sasane	7	26.10.2023	Mr. D.A. Sasane
4	14.09.2023	Mr. K. S. Kalekar	8	01.11.2023	Mr. K. S. Kalekar

  
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 Department of Chemistry  
 Short Term Course "Preparation of Household Chemicals"  
 Student Presents (2023-24)

Sr. No.	Name of the student	6/9/2023	7/9/2023	13/9/23	14/9/23	20/9/23	21/9/23	27/9/23	4/10/23
1	BUCHADE SAKSHI DAYANAND	Sakhi	Sakhi	Sakhi	Sakhi	Sakhi	Sakhi	Sakhi	Sakhi
2	CHANNE AARTI DIPAK	ADC	ADC	ADC	ADC	ADC	ADC	ADC	ADC
3	CHAVAN SUMIT SUNIL	charan	charan	charan	charan	charan	charan	charan	charan.
4	CHINCHANE SANIKA HINDURAV	<del>He</del>	<del>He</del>	<del>He</del>	<del>He</del>	<del>He</del>	<del>He</del>	<del>He</del>	<del>He</del>
5	HOGALE PRAMOD PANDURANG	PPT	PPT	PPT	PPT	PPT	PPT	PPT	PPT
6	INGALE SHITAL POPAT	SPINGU	SPINGU	SPINGU	SPINGU	SPINGU	SPINGU	SPINGU	SPINGU
7	JADHAV KIRAN SURESH	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav
8	JADHAV SHUBHAM RAJARAM	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav
9	KABUGADE NANDINI SANJAY	NSK	NSK	NSK	NSK	NSK	NSK	NSK	NSK
10	KADAM SANKET MARUTI	SMKADAM	SMKADAM	SMKADAM	SMKADAM	SMKADAM	SMKADAM	SMKADAM	SMKADAM
11	KOLI SANKET RAJENDRA	Koliset	Koliset	Koliset	Koliset	Koliset	Koliset	Koliset	Koliset
12	KUMBHAR RAJ DHANAJI	Rajbhar	Rajbhar	Rajbhar	Rajbhar	Rajbhar	Rajbhar	Rajbhar	Rajbhar
13	LAD PRANAV SATISH	Pranav	Pranav	Pranav	Pranav	Pranav	Pranav	Pranav	Pranav
14	MADANE ANJALI SHANKAR	Anam	Anam	Anam	Anam	Anam	Anam	Anam	Anam
15	MAHIND PRATIK SAMBHAJI	PSM	PSM	PSM	PSM	PSM	PSM	PSM	PSM
16	MOHITE HRISHIKESH BHARAT	Mohite	Mohite	Mohite	Mohite	Mohite	Mohite	Mohite	Mohite
17	MOHITE SANKET SANJAY	Sanket	Sanket	Sanket	Sanket	Sanket	Sanket	Sanket	Sanket

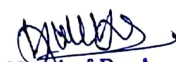
18	MOHITE VAISHNAVI DADASO	vaish	vaish	vaish	vaish	vaish	vaish	vaish	vaish
19	MORE SUYASH SUNIL	Sue	Sue	Sue	Sue	Sue	Sue	Sue	Sue
20	NALAWADE SARIKA SANJAY	San	San	San	San	San	San	San	San
21	NALAWADE SAURABH SUNIL	Sa	Sa	Sa	Sa	Sa	Sa	Sa	Sa
22	NERLEKAR OMKAR NANDKUMAR	Om	Om	Om	Om	Om	Om	Om	Om
23	PATIL DIPALI PRAKASH	Dip	Dip	Dip	Dip	Dip	Dip	Dip	Dip
24	PATIL PRASHANT NANDKUMAR	P.N.P	P.N.P	P.N.P	P.N.P	P.N.P	P.N.P	P.N.P	P.N.P
25	PATIL PRUTHVIRAJ DHANANJAY								
26	PATIL PRUTHVIRAJ PRAVIN	Pr	Pr	Pr	Pr	Pr	Pr	Pr	Pr
27	PATIL SAHIL DHANAJI	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil
28	PATIL SUDHIR HANMANT	Sud	Sud	Sud	Sud	Sud	Sud	Sud	Sud
29	PAWAR SAKSHI SATISH	Sak	Sak	Sak	Sak	Sak	Sak	Sak	Sak
30	PAWAR SANDESH MAHESH	S.M.P	S.M.P	S.M.P	S.M.P	S.M.P	S.M.P	S.M.P	S.M.P
31	PAWAR SANIKA ULHAS	Sani	Sani	Sani	Sani	Sani	Sani	Sani	Sani
32	PISAL DIGVIJAY KAILAS	Dig	Dig	Dig	Dig	Dig	Dig	Dig	Dig
33	PISAL SURAJ SURESH	Pisal	Pisal	Pisal	Pisal	Pisal	Pisal	Pisal	Pisal
34	SALUNKHE SHIVANM PRAVIN	S.S.P	S.S.P	S.S.P	S.S.P	S.S.P	S.S.P	S.S.P	S.S.P
35	SALUNKHE VISHWAJIT VIJAY	Vish	Vish	Vish	Vish	Vish	Vish	Vish	Vish
36	SUTAR NAMRATA SURYAKANT	Sutar	Sutar	Sutar	Sutar	Sutar	Sutar	Sutar	Sutar
37	TIRMARE KUNAL MAHENDRA	Tee	Tee	Tee	Tee	Tee	Tee	Tee	Tee
38	WAINGADE SAHIL CHANDRAKANT	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil	Sahil
39	YADAV PRAJVAL SAMPATRAO	Praj	Praj	Praj	Praj	Praj	Praj	Praj	Praj

Sr. No.	Name of the student	5/10/23	11/10/23	12/10/23	18/10/23	19/10/23	25/10/23	26/10/23	1/11/23
1	BUCHADE SAKSHI DAYANAND	Sakhi	Sakhi	Sakhi	Sakhi	Sakhi	Sakhi	Sakhi	Sakhi
2	CHANNE AARTI DIPAK	APC	APC	APC	APC	APC	APC	APC	APC
3	CHAVAN SUMIT SUNIL	Chavan.	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan.
4	CHINCHANE SANIKA HINDURAV	<del>Ita</del>	<del>Ita</del>	<del>Ita</del>	<del>Ita</del>	<del>Ita</del>	<del>Ita</del>	<del>Ita</del>	<del>Ita</del>
5	HOGALE PRAMOD PANDURANG	PPH	PPH	PPH	PPH	PPH	PPH	PPH	PPH
6	INGALE SHITAL POPAT	SPINGA	SPINGA	SPINGA	SPINGA	SPINGA	SPINGA	SPINGA	SPINGA
7	JADHAV KIRAN SURESH	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav
8	JADHAV SHUBHAM RAJARAM	<del>JSR</del>	<del>JSR</del>	<del>JSR</del>	<del>JSR</del>	<del>JSR</del>	<del>JSR</del>	<del>JSR</del>	<del>JSR</del>
9	KABUGADE NANDINI SANJAY	NSK	NSK	NSK	NSK	NSK	NSK	NSK	NSK
10	KADAM SANKET MARUTI	SMKAD	SMKAD	SMKAD	SMKAD	SMKAD	SMKAD	SMKAD	SMKAD
11	KOLI SANKET RAJENDRA	Kolesa	Kolesa	Kolesa	Kolesa	Kolesa	Kolesa	Kolesa	Kolesa
12	KUMBHAR RAJ DHANAJI	Rajkumar	Rajkumar	Rajkumar	Rajkumar	Rajkumar	Rajkumar	Rajkumar	Rajkumar
13	LAD PRANAV SATISH	Pranav	Pranav	Pranav	Pranav	Pranav	Pranav	Pranav	Pranav
14	MADANE ANJALI SHANKAR	Anam	Anam	Anam	Anam	Anam	Anam	Anam	Anam
15	MAHIND PRATIK SAMBHAJI	PSM	PSM	PSM	PSM	PSM	PSM	PSM	PSM
16	MOHITE HRISHIKESH BHARAT	Mohite	Mohite	Mohite	Mohite	Mohite	Mohite	Mohite	Mohite
17	MOHITE SANKET SANJAY	<del>S</del>	<del>S</del>	<del>S</del>	<del>S</del>	<del>S</del>	<del>S</del>	<del>S</del>	<del>S</del>
18	MOHITE VAISHNAVI DADASO	Vaish	Vaish	Vaish	Vaish	Vaish	Vaish	Vaish	Vaish
19	MORE SUYASH SUNIL	SSM	SSM	SSM	SSM	SSM	SSM	SSM	SSM
20	NALAWADE SARIKA SANJAY	SNV	SNV	SNV	SNV	SNV	SNV	SNV	SNV
21	NALAWADE SAURABH SUNIL	S	S	S	S	S	S	S	S

22	NERLEKAR OMKAR NANDKUMAR	<u>Omkar</u>	<u>Omkar</u>	<u>Omkar</u>	<u>Omkar</u>	<u>Omkar</u>	<u>Omkar</u>	<u>Omkar</u>	<u>Omkar</u>
23	PATIL DIPALI PRAKASH	<u>DP</u>	<u>DP</u>	<u>DP</u>	<u>DP</u>	<u>DP</u>	<u>DP</u>	<u>DP</u>	<u>DP</u>
24	PATIL PRASHANT NANDKUMAR	<u>P.N.P</u>	<u>P.N.P</u>	<u>P.N.P</u>	<u>P.N.P</u>	<u>P.N.P</u>	<u>P.N.P</u>	<u>P.N.P</u>	<u>P.N.P</u>
25	PATIL PRUTHVIRAJ DHANANJAY	<u>PP</u>	<u>PP</u>	<u>PP</u>	<u>PP</u>	<u>PP</u>	<u>PP</u>	<u>PP</u>	<u>PP</u>
26	PATIL PRUTHVIRAJ PRAVIN	<u>PPPr</u>	<u>PPPr</u>	<u>PPPr</u>	<u>PPPr</u>	<u>PPPr</u>	<u>PPPr</u>	<u>PPPr</u>	<u>PPPr</u>
27	PATIL SAHIL DHANAJI	<u>Sahil</u>	<u>Sahil</u>	<u>Sahil</u>	<u>Sahil</u>	<u>Sahil</u>	<u>Sahil</u>	<u>Sahil</u>	<u>Sahil</u>
28	PATIL SUDHIR HANMANT	<u>Sudhir</u>	<u>Sudhir</u>	<u>Sudhir</u>	<u>Sudhir</u>	<u>Sudhir</u>	<u>Sudhir</u>	<u>Sudhir</u>	<u>Sudhir</u>
29	PAWAR SAKSHI SATISH	<u>SS</u>	<u>SS</u>	<u>SS</u>	<u>SS</u>	<u>SS</u>	<u>SS</u>	<u>SS</u>	<u>SS</u>
30	PAWAR SANDESH MAHESH	<u>S.M.P</u>	<u>S.M.P</u>	<u>S.M.P</u>	<u>S.M.P</u>	<u>S.M.P</u>	<u>S.M.P</u>	<u>S.M.P</u>	<u>S.M.P</u>
31	PAWAR SANIKA ULHAS	<u>Snikat</u>	<u>Snikat</u>	<u>Snikat</u>	<u>Snikat</u>	<u>Snikat</u>	<u>Snikat</u>	<u>Snikat</u>	<u>Snikat</u>
32	PISAL DIGVIJAY KAILAS	<u>DPisal</u>	<u>DPisal</u>	<u>DPisal</u>	<u>DPisal</u>	<u>DPisal</u>	<u>DPisal</u>	<u>DPisal</u>	<u>DPisal</u>
33	PISAL SURAJ SURESH	<u>Pisal</u>	<u>Pisal</u>	<u>Pisal</u>	<u>Pisal</u>	<u>Pisal</u>	<u>Pisal</u>	<u>Pisal</u>	<u>Pisal</u>
34	SALUNKHE SHIVANM PRAVIN	<u>S.S.P</u>	<u>S.S.P</u>	<u>S.S.P</u>	<u>S.S.P</u>	<u>S.S.P</u>	<u>S.S.P</u>	<u>S.S.P</u>	<u>S.S.P</u>
35	SALUNKHE VISHWAJIT VIJAY	<u>V.V.Sal</u>	<u>V.V.Sal</u>	<u>V.V.Sal</u>	<u>V.V.Sal</u>	<u>V.V.Sal</u>	<u>V.V.Sal</u>	<u>V.V.Sal</u>	<u>V.V.Sal</u>
36	SUTAR NAMRATA SURYAKANT	<u>Sutar</u>	<u>Sutar</u>	<u>Sutar</u>	<u>Sutar</u>	<u>Sutar</u>	<u>Sutar</u>	<u>Sutar</u>	<u>Sutar</u>
37	TIRMARE KUNAL MAHENDRA	<u>Te</u>	<u>Te</u>	<u>Te</u>	<u>Te</u>	<u>Te</u>	<u>Te</u>	<u>Te</u>	<u>Te</u>
38	WAINGADE SAHIL CHANDRAKANT	<u>Sahil</u>	<u>Sahil</u>	<u>Sahil</u>	<u>Sahil</u>	<u>Sahil</u>	<u>Sahil</u>	<u>Sahil</u>	<u>Sahil</u>
39	YADAV PRAJVAL SAMPATRAO	<u>Prajval</u>	<u>Prajval</u>	<u>Prajval</u>	<u>Prajval</u>	<u>Prajval</u>	<u>Prajval</u>	<u>Prajval</u>	<u>Prajval</u>

Sr. No.	Name of the student	1/11/23	8/11/23	9/11/23	23/11/23	29/11/23	30/11/23	6/12/23	7/12/23
1	BUCHADE SAKSHI DAYANAND	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi	Sakshi
2	CHANNE AARTI DIPAK	Aarti	Aarti	Aarti	Aarti	Aarti	Aarti	Aarti	Aarti
3	CHAVAN SUMIT SUNIL	Sumit	Sumit	Sumit	Sumit	Sumit	Sumit	Sumit	Sumit
4	CHINCHANE SANIKA HINDURAV	Sanika	Sanika	Sanika	Sanika	Sanika	Sanika	Sanika	Sanika
5	HOGALE PRAMOD PANDURANG	Pramod	Pramod	Pramod	Pramod	Pramod	Pramod	Pramod	Pramod
6	INGALE SHITAL POPAT	Shital	Shital	Shital	Shital	Shital	Shital	Shital	Shital
7	JADHAV KIRAN SURESH	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran
8	JADHAV SHUBHAM RAJARAM	Shubham	Shubham	Shubham	Shubham	Shubham	Shubham	Shubham	Shubham
9	KABUGADE NANDINI SANJAY	Nandini	Nandini	Nandini	Nandini	Nandini	Nandini	Nandini	Nandini
10	KADAM SANKET MARUTI	Sanket	Sanket	Sanket	Sanket	Sanket	Sanket	Sanket	Sanket
11	KOLI SANKET RAJENDRA	Sanket	Sanket	Sanket	Sanket	Sanket	Sanket	Sanket	Sanket
12	KUMBHAR RAJ DHANAJI	Raj	Raj	Raj	Raj	Raj	Raj	Raj	Raj
13	LAD PRANAV SATISH	Pranav	Pranav	Pranav	Pranav	Pranav	Pranav	Pranav	Pranav
14	MADANE ANJALI SHANKAR	Anjali	Anjali	Anjali	Anjali	Anjali	Anjali	Anjali	Anjali
15	MAHIND PRATIK SAMBHAJI	Pratik	Pratik	Pratik	Pratik	Pratik	Pratik	Pratik	Pratik
16	MOHITE HRISHIKESH BHARAT	Hrishikesh	Hrishikesh	Hrishikesh	Hrishikesh	Hrishikesh	Hrishikesh	Hrishikesh	Hrishikesh
17	MOHITE SANKET SANJAY	Sanket	Sanket	Sanket	Sanket	Sanket	Sanket	Sanket	Sanket
18	MOHITE VAISHNAVI DADASO	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi
19	MORE SUYASH SUNIL	Suyash	Suyash	Suyash	Suyash	Suyash	Suyash	Suyash	Suyash
20	NALAWADE SARIKA SANJAY	Sarika	Sarika	Sarika	Sarika	Sarika	Sarika	Sarika	Sarika
21	NALAWADE SAURABH SUNIL	Saurabh	Saurabh	Saurabh	Saurabh	Saurabh	Saurabh	Saurabh	Saurabh

22	NERLEKAR OMKAR NANDKUMAR	<del>NP</del>	NP	NP	NP	NP	NP	NP	NP
23	PATIL DIPALI PRAKASH	<del>DP</del>	DP	DP	DP	DP	DP	DP	DP
24	PATIL PRASHANT NANDKUMAR	P.N.P	P.N.P	P.N.P	P.N.P	P.N.P	P.N.P	P.N.P	P.N.P
25	PATIL PRUTHVIRAJ DHANANJAY	Pati	Pati	Pati	Pati	Pati	Pati	Pati	Pati
26	PATIL PRUTHVIRAJ PRAVIN	<del>PPPr</del>	PPPr	PPPr	PPPr	PPPr	PPPr	PPPr	PPPr
27	PATIL SAHIL DHANAJI								
28	PATIL SUDHIR HANMANT	<del>SP</del>	SP	SP	SP	SP	SP	SP	SP
29	PAWAR SAKSHI SATISH								
30	PAWAR SANDESH MAHESH	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy	Sandy
31	PAWAR SANIKA ULHAS	<del>SP</del>	SP	SP	SP	SP	SP	SP	SP
32	PISAL DIGVIJAY KAILAS	<del>DP</del>	DP	DP	DP	DP	DP	DP	DP
33	PISAL SURAJ SURESH	Pisal	Pisal	Pisal	Pisal	Pisal	Pisal	Pisal	Pisal
34	SALUNKHE SHIVANM PRAVIN	S.S.P	S.S.P	S.S.P	S.S.P	S.S.P	S.S.P	S.S.P	S.S.P
35	SALUNKHE VISHWAJIT VIJAY	<del>SP</del>	SP	SP	SP	SP	SP	SP	SP
36	SUTAR NAMRATA SURYAKANT	<del>SP</del>	SP	SP	SP	SP	SP	SP	SP
37	TIRMARE KUNAL MAHENDRA	<del>TR</del>	TR	TR	TR	TR	TR	TR	TR
38	WAINGADE SAHIL CHANDRAKANT	<del>SA</del>	SA	SA	SA	SA	SA	SA	SA
39	YADAV PRAJVAL SAMPATRAO	<del>PY</del>	PY	PY	PY	PY	PY	PY	PY

  
 Head of Dept.  
 Department of Chemistry  
 Dr. Patangrao Kadam Mahavidhyalaya  
 Ramanandnagar (Burlii)

Rayat Shikshan Sanstha's  
**Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)**  
Department of Chemistry  
Short Term Course "Preparation of Household Chemicals"  
Examination (2023-24)

Subject: - Basic Concept of Household chemicals Paper-I

Date – 10/01/2024

Time – 1.00 to 2.00

Marks – 50

.....

**Que. 1) Select the most correct alternative from the following and rewrite the sentence.**

i) Which of the following is not the unit of concentration? [10]

- a) Normality                      b) Morality  
c) Molality                        d) Kg

ii) Which of the following is not a cleaning agent?

- a) Soyabean oil                  b) Dettol  
c) Lysol                            d) Savlon

iii) Proton Donor Substance are call as...

- a) Acid                              b) Base  
c) Both A and B                  d) none of these

iv) 15% solution of a substance contains.... gm in to 100 ml solvent.

- a) 15                                  b) 20  
c) 10.5                               d) 11

v) Gram equivalent wt. of solute per litre of solvent is called as...

- a) Normality                      b) Morality  
c) Molality                        d) grams

**Que. 2) Answer the following Questions (any four)**

[20]

- i) Define the term normality, Morality and Molality.  
ii) How will you prepare 100 ml 0.1 N NaOH solution?  
iii) What are acids and Bases? Explain in details with example.  
iv) Define the term indicator. Give the types.  
v) What is mean by titration giving the types of titrations?

**Que. 3) Answer ant two of the following Questions.**

[20]

- i) Explain the preparation of White phenyl.  
ii) Give the different uses of Household chemicals.  
iii) Describe the term Equivalent weight and molecular weight with examples.

Rayat Shikshan Sanstha's  
**Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)**  
Department of Chemistry  
Short Term Course "Preparation of Household Chemicals"  
Examination (2023-24)

**Subject: - Mechanism Precaution and Cleaning Action of Household Chemicals**  
(Paper-II)

**Date-10/01/2024**

**Times 02.00 to 03.00 pm**

**Marks – 50**

.....

**Que. 1) Select the most correct alternative from the following and rewrite the sentence.**

- i) Carbolic acid is also known as...
- |                    |                 |
|--------------------|-----------------|
| a) Carboxylic Acid | b) Phenol       |
| c) Phenyl          | d) All of these |
- ii) Phenyl is use as a...
- |                 |                    |
|-----------------|--------------------|
| a) Stepper      | b) cleaning agents |
| c) Disinfectant | d) both a and b    |
- iii) In phenol-O11 group is... attaching to
- |                    |                      |
|--------------------|----------------------|
| a) Sp              | b) Sp <sup>2</sup>   |
| c) Sp <sup>3</sup> | d) Sp <sup>2</sup> d |
- iv) Phenol is Hydroxyl compound.
- |              |                  |
|--------------|------------------|
| a) Aliphatic | b) Aromatic      |
| c) Cyclic    | d) none of these |
- v) Soaps are alkali metal salt of... higher Acids
- |                 |          |
|-----------------|----------|
| a) Alkyl        | b) Aryl  |
| c) Both a and b | d) Falty |

**Que. 2) Answer the following Questions (any four)**

**[20]**

- i) Give the uses of phenyl.
- ii) Give the procedure used for the preparation of liquid soap?
- iii) Give the uses of liquid soap.
- iv) How will you prepare phenol from chlorobenzene by DOW-process.
- v) Give the three properties of phenol.

**Que. 3) Answer ant two of the following Questions.**

**[20]**


- i) Discuss the Manufacture of liquid soap.
- ii) Give the Methods of synthesis of phenol.
- iii) Give the uses of white phenyl and black phenyl



Sr. No.	Roll No.	Name of the student	Marks
1	1851	BUCHADE SAKSHI DAYANAND	85
2	1852	CHANNE AARTI DIPAK	82
3	1853	CHAVAN SUMIT SUNIL	60
4	1854	CHINCHANE SANIKA HINDURAV	83
5	1855	HOGALE PRAMOD PANDURANG	78
6	1856	INGALE SHITAL POPAT	85
7	1857	JADHAV KIRAN SURESH	78
8	1858	JADHAV SHUBHAM RAJARAM	70
9	1859	KABUGADE NANDINI SANJAY	81
10	1860	KADAM SANKET MARUTI	65
11	1861	KOLI SANKET RAJENDRA	66
12	1862	KUMBHAR RAJ DHANAJI	71
13	1863	LAD PRANAV SATISH	62
14	1864	MADANE ANJALI SHANKAR	80
15	1865	MAHIND PRATIK SAMBHAJI	65
16	1866	MOHITE HRISHIKESH BHARAT	63
17	1867	MOHITE SANKET SANJAY	68
18	1868	MOHITE VAISHNAVI DADASO	88
19	1869	MORE SUYASH SUNIL	68
20	1870	NALAWADE SARIKA SANJAY	85
21	1871	NALAWADE SAURABH SUNIL	67
22	1872	NERLEKAR OMKAR NANDKUMAR	65
23	1873	PATIL DIPALI PRAKASH	80
24	1874	PATIL PRASHANT NANDKUMAR	65
25	1875	PATIL PRUTHVIRAJ DHANANJAY	65
26	1876	PATIL PRUTHVIRAJ PRAVIN	66

27	1877	PATIL SAHIL DHANAJI	68
28	1878	PATIL SUDHIR HANMANT	67
29	1879	PAWAR SAKSHI SATISH	85
30	1880	PAWAR SANDESH MAHESH	74
31	1881	PAWAR SANIKA ULHAS	82
32	1882	PISAL DIGVIJAY KAILAS	72
33	1883	PISAL SURAJ SURESH	70
34	1884	SALUNKHE SHIVANM PRAVIN	65
35	1885	SALUNKHE VISHWAJIT VIJAY	68
36	1886	SUTAR NAMRATA SURYAKANT	65
37	1887	TIRMARE KUNAL MAHENDRA	65
38	1888	WAINGADE SAHIL CHANDRAKANT	68
39	1889	YADAV PRAJVAL SAMPATRAO	69

  
Coordinator

  
Head of Dept.  
Department of Chemistry  
Dr. Patangrao Kadam Mahavidhyalaya  
Ramanandnagar (Burli)



Rayat Shikshan Sanstha's  
**Dr. PATANGRAO KADAM MAHAVIDYALAYA, RAMANANDNAGAR (BURLI)**


TAL: PALUS, DIST: SANGLI - 416 308  
Reaccredited with 'A' Grade by NAAC (CGPA-3.02)

**Department of Chemistry**  
**'Short Term Certificate Course'**  
**2023-2024**

## **CERTIFICATE**

This is to certify that Mr. /Mrs. /Miss. \_\_\_\_\_ has actively participated in Short Term certificate Course, '**PREPARATION OF HOUSEHOLD CHEMICALS**', for B.Sc. Part III students Conducted by Department of Chemistry, Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (BurlI) in the year 2023-2024.

**Mr. D. P. Gawari**  
Course Incharge

  
**Mr. S. S. Kalekar**  
Head of Department

**Prof. Dr. U. V. Patil**  
I/C Principal

**Rayat Shikshan Sanstha's**  
**Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)**  
**Department of Chemistry**  
**Report on**  
**Short Term Course "Preparation of Household Chemicals"**

10/12/2023

Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli) Department of Chemistry conduct the short-term certificate course "Preparation of household chemicals" every year. In this year this course started from 6<sup>th</sup> September 2023 to 7<sup>th</sup> December 2023. The Purpose of this course is to give the marketing skill and make the students self-employed. Also to enable students to understand the basic principles of household chemical preparation, including safety protocols, ingredients selections. The duration of this course is 3 months. In this year 39 students were admitted for this course.

The total marks for this course were 100. In this course there was three papers i) Basic concept of household chemicals ii) Mechanism Precaution and cleaning action of household chemicals and iii) practical paper which includes preparation of Sanitary acids, liquid soap, white phenyl, Black phenyl and market survey of household chemicals. This course is successfully completed by the B.Sc. Part III students. 100 marks exam was conducted in two session paper I and paper II for academic year 2023-24. After successful completion of this course the Certificate would provide to students.

**No. of Beneficiaries –**  
39

**Outcomes**

- Student gets marketing Skills through this course
- Students get self employed



Students Preparing the white phenyl and black phenyl



*Dr. P.*  
Coordinator

*M. N. S.*  
Head of Dept.  
Department of Chemistry  
Dr. Patangrao Kadam Mahavidhyalaya  
Ramanandnagar (Burla)