

**Rayat Shikshan Sanstha's  
Dr. Patangrao Kadam Mahavidyalaya , Ramanandnagar (Burli),  
Tal.-Palus, Dist. - Sangli.  
Department of Chemistry**

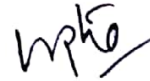
**Short Term Course 2020-21**

**Notice**

All the Students are hereby informed that the Short term Certificate Course "Preparation of Household Chemicals" Will be started from 02 December 2020 as per your timetable.



Course Incharge



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

**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

# PREPARATION OF HOUSEHOLD CHEMICALS

SHIVAJI UNIVERSITY KOLHAPUR

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## ❖ PREPARATION OF HOUSEHOLD CHEMICALS Syllabus

### Paper- I :- Basic concept of household chemicals [ 30 Marks]

#### Unit I:- Domestic chemicals

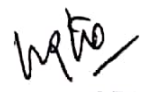
- 1.1 Introduction of domestic chemicals
- 1.2 Sanitary acids
- 1.3 Phenyl
- 1.4 Liquid soaps; Lysol, dettol, savlon.
- 1.5 Acids –bases
- 1.6 General introduction
- 1.7 Theory
- 1.8 Types
- 1.9 Cleaning action of acids and Handling and precautions

#### Unit II:- Domestic chemicals

- 2.1 Mole concepts.
- 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
- 2.10 Percentage composition by weight.

#### Unit III: - Titration

- 3.1 General introduction
- 3.2 Types of titration
- 3.3 Indicators
- 3.4 Theory and types.

  
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Department of Chemistry  
Dr. Patangrao Kadam Mahavidhyalaya  
Ramanandnagar (Burla)

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Dr. Patangrao Kadam Mahavidyalaya Ramanandnagar (Burli)  
Department of Chemistry  
**SHORT TERM CERTIFICATE COURSE**  
**"PREPARATION OF HOUSEHOLD CHEMICALS"**  
2020-21  
Student list

Sr. No.	Roll No	Name of the students	Sign
1	1851	BABAR AMRUTA ANKUSII	<i>(Babar)</i>
2	1852	CHAVAN ANIKET ANIL	<i>(Chavan)</i>
3	1853	CHAVAN PRAJAKTA VITTHAL	<i>(Chavan)</i>
4	1854	CHOUGULE SANKET ASHOK	<i>(SAC)</i>
5	1855	HOWAL OMKAR VIKAS	<i>(Howal)</i>
6	1856	JADHAV ABHISHEK ARUN	<i>(Abhi)</i>
7	1857	JADHAV MONIKA ASHOK	<i>(Jadhav)</i>
8	1858	JADHAV POOJA ANANDA	<i>(Pooja)</i>
9	1859	JADHAV PRIYANKA POPAT	<i>(Jadhav)</i>
10	1860	JADHAV SALONI BAJARANG	<i>(S. B. Jadhav)</i>
11	1861	JADHAV YOGITA SUBHASH	<i>(Yogita)</i>
12	1862	KAMBLE HARSHADA VISHWANATH	<i>(Harshada)</i>
13	1863	KAMBLE PADMAJA CHANDRAKANT	<i>(Kamble)</i>
14	1864	KOLI OMKAR SADASHIV	<i>(Koli)</i>
15	1865	KUMBHAR GANESH DHANAJI	<i>(Kumbhar)</i>
16	1866	KUMBHAR PRATIKSHA LAXMAN	<i>(PK)</i>
17	1867	MANE AMIT SUBHASH	<i>(Mane)</i>
18	1868	MOHITE SHWETA DILIP	<i>(S. D. Mohite)</i>
19	1869	MUJAWAR PARVEJ HARUN	<i>(Mujawar)</i>
20	1870	MULANI SABIR ZAKIR	<i>(Mulani)</i>
21	1871	MULANI SUJAN ZAKIR	<i>(Mulani)</i>
22	1872	MULIK TEJASWINI PRAKASH	<i>(Mulik)</i>
23	1873	PATIL KOMAL SUDHIR	<i>(Patil)</i>
24	1874	PATIL PRAJAKTA ANANDRAO	<i>(Patil)</i>
25	1875	PATIL RITESH RAJENDRA	<i>(Patil)</i>
26	1876	PATIL RUTUJA DAGADU	<i>(Rutuja)</i>
27	1877	PATIL VIBHUTI VISHWASRAO	<i>(Patil)</i>



28	1878	RADE MEGHA ASHOK	M. Rade
29	1879	SAWANT PIYUSHA SHANTANU	P. Sawant
30	1880	SAWANT SHUBHAM BHARAT	S. Sawant
31	1881	SAWAT ANIKET HANMANT	A. Sawant
32	1882	YAMGAR MAYURI ANIL	M. Yamgar
33	1883	AUTE MAHESH GANPATRAO	M. Aute
34	1884	BABAR ANIKET ANKUSH	A. Babar
35	1885	JADHAV RUSHIKESH DILIP	R. Jadhav
36	1886	KADAM SATYAJEET KUMAR	S. Kadam
37	1887	KATE VIKRAM JAGNNATH	V. Kate
38	1888	KAULE ANIKET VASANT	A. Kaula
39	1889	KUMBHAR SHIVRAJ VILAS	S. Kumbhar
40	1890	LAD YOGESHWAR ASHOK	Y. Lad
41	1891	MOHITE AJAY RAGHUNATH	A. Mohite
42	1892	MORE PAWAN SURESH	P. More
43	1893	MULLA AKRAM SHAMSHUDDIN	M. Mulla
44	1894	PATHAN SOHEL AKIL	S. Pathan
45	1895	PATIL AISHWARYA SATISH	A. Patil
46	1896	PATIL ANIKET RAJENDRA	A. Patil
47	1897	PATIL PRATAP BALASO	P. Patil
48	1898	PATIL SUMIT ISHWAR	S. Patil
49	1899	SAWANT SHUBHAM SANJAY	S. Sawant
50	1900	SHINDE SAGAR SHANKAR	S. Shinde

For  
Coordinator  
Mr. D. P. Gawali

W. K. K.  
Head of Dept.  
Department of Chemistry  
Dr. Patangrao Kadam Mahavidyalaya,  
Ramnandnagar (Durti)



Rayat Shikshan Sanstha's  
A. S. C. College, Ramanandnagar (Burla)  
**PREPARATION OF HOUSEHOLD CHEMICALS**  
**SHORT TERM COURSE**  
**Time Table (2020-21)**  
**B.Sc. III**

**Theory**

**Time- 10:00 to 11:00 am**

Sr. No.	Date	Name of the Lecturer	Sr. No.	Date	Name of the Lecturer
1	02.12.2020	Mr. D. P. Gawari	13	20.01.2021	Mr. Y. R. Sable
2	03.12.2020	Dr. V. B. Patil	14	22.01.2021	Prof. Dr. P. B. Piste
3	09.12.2020	Mr. U. S. Shelke	15	25.01.2021	Dr. V. B. Patil
4	10.12.2020	Mr. D. A. Sasane	16	01.02.2021	Mr. D. P. Gawari
5	16.12.2020	Mr. V. R. Bhosale	17	03.02.2021	Mr. U. S. Shelke
6	17.12.2020	Mr. Y. R. Sable	18	05.02.2021	Mr. D. A. Sasane
7	04.01.2021	Prof. Dr. P. B. Piste	19	12.02.2021	Mr. V. R. Bhosale
8	06.01.2021	Dr. V. B. Patil	20	15.02.2021	Mr. Y. R. Sable
9	08.01.2021	Mr. D. P. Gawari	21	17.02.2021	Mr. Y. R. Bhosale
10	11.01.2021	Mr. U. S. Shelke	22	22.02.2021	Mr. D. P. Gawari
11	13.01.2021	Mr. D. A. Sasane	23	24.02.2021	Mr. U. S. Shelke
12	15.01.2021	Mr. V. R. Bhosale	24	26.02.2021	Mr. D. A. Sasane

**Practical**

**Time: - 02.00 to 05.00 pm**


Sr.No.	Date	Name of the Lecturer	Sr.No.	Date	Name of the Lecturer
1	02.01.2021	Mr. D. P. Gawari	5	16.02.2021	Dr. V. B. Patil
2	16.01.2021	Mr. U. S. Shelke	6	18.02.2021	Mr. Y. R. Sable
3	30.01.2021	Mr. D. A. Sasane	7	25.02.2021	Prof. Dr. P. B. Piste
4	13.02.2021	Mr. V. R. Bhosale	8	27.02.2021	Mr. D. P. Gawari

W.R.G.  
Head of Dept.  
Department of Chemistry

**Rayat Shikshan Sanstha's**  
**Dr. Patangrao Kadam Mahavidyalaya Ramanandnagar (Burli)**  
**Department of Chemistry**  
**2020-2021**  
**Short Term Certificate course**  
**"Preparation of Household Chemicals"**

**Outcomes:-**

- 1) To make availability of self employment.
- 2) Build confidence for doing job.
- 3) Increase skills required for job.
- 4) Develop skill of market survey.
- 5) Develop knowledge of domestic chemicals.
- 6) Develop skill of subject knowledge on applied basis.

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

**Rayat Shikshan Sansthas**  
**Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burl)**  
**Department of Chemistry**  
**Preparation Of Household Chemicals (2020-21)**

Lecture time : 10 am to 11:00 am Student Present Practical time : 2:00 Pm to 5:00 Pm

Sr. No.	Name of the Student	02/12	03/12	09/12	10/12	16/12	Practical 01/01	06/01	08/01	13/01	15/01	20/01	Practical 22/01
1	Babar Amruta Ankush	A Babar	A Babar	A Babar	A Babar	A Babar	A Babar	A Babar	A Babar	A Babar	A Babar	A Babar	A Babar
2	Chavan Aniket Anil	A Chavan	A Chavan	A Chavan	A Chavan	A Chavan	A Chavan	A Chavan	A Chavan	A Chavan	A Chavan	A Chavan	A Chavan
3	Chavan Prajakta Vitthal	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan
4	Chougule Sanket Ashok	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
5	Howal Omkar Vikas	OVHowal	OVHowal	OVHowal	OVHowal	OVHowal	OVHowal	OVHowal	OVHowal	OVHowal	OVHowal	OVHowal	OVHowal
6	Jadhav Abhishek Arun	JABH	JABH	JABH	JABH	JABH	JABH	JABH	JABH	JABH	JABH	JABH	JABH
7	Jadhav Monika Ashok	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav
8	Jadhav Pooja Ananda	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja
9	Jadhav Priyanka Popat	PJadhav	PJadhav	PJadhav	PJadhav	PJadhav	PJadhav	PJadhav	PJadhav	PJadhav	PJadhav	PJadhav	PJadhav
10	Jadhav Saloni Bajarang	SBJade	SBJade	SBJade	SBJade	SBJade	SBJade	SBJade	SBJade	SBJade	SBJade	SBJade	SBJade
11	Jadhav Yogita Subhash	Just	Just	Just	Just	Just	Just	Just	Just	Just	Just	Just	Just
12	Kamble Harshada Vishwanath	HVKamble	HVKamble	HVKamble	HVKamble	HVKamble	HVKamble	HVKamble	HVKamble	HVKamble	HVKamble	HVKamble	HVKamble
13	Kamble Padmaja Chandrakant	PCKamble	PCKamble	PCKamble	PCKamble	PCKamble	PCKamble	PCKamble	PCKamble	PCKamble	PCKamble	PCKamble	PCKamble
14	Koli Omkar Sadashiv	KOS	KOS	KOS	KOS	KOS	KOS	KOS	KOS	KOS	KOS	KOS	KOS
15	Kumbhar Ganesh Dhanaji	JKumbhar	JKumbhar	JKumbhar	JKumbhar	JKumbhar	JKumbhar	JKumbhar	JKumbhar	JKumbhar	JKumbhar	JKumbhar	JKumbhar
16	Kumbhar Pratiksha Laxman	PLK	PLK	PLK	PLK	PLK	PLK	PLK	PLK	PLK	PLK	PLK	PLK
17	Mane Amit Subhash	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane
18	Mohite Shweta Dilip	S.D.Mohite	S.D.Mohite	S.D.Mohite	S.D.Mohite	S.D.Mohite	S.D.Mohite	S.D.Mohite	S.D.Mohite	S.D.Mohite	S.D.Mohite	S.D.Mohite	S.D.Mohite





19	Mujawar Parvej Harun	Mujawar	Mujawar	Mujawar	Mujawar	Mujawar	Mujawar	Mujawar	Mujawar	Mujawar	Mujawar	Mujawar	Mujawar
20	Mulani Sabir Zakir	Mulani	Mulani	Mulani	Mulani	Mulani	Mulani	Mulani	Mulani	Mulani	Mulani	Mulani	Mulani
21	Mulani Sujan Zakir	Mulani	Mulani	Mulani	Mulani	Mulani	Mulani	Mulani	Mulani	Mulani	Mulani	Mulani	Mulani
22	Mulik Tejaswini Prakash	Mulik	Mulik	Mulik	Mulik	Mulik	Mulik	Mulik	Mulik	Mulik	Mulik	Mulik	Mulik
23	Patil Komal Sudhir	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
24	Patil Prajakta Anandrao	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
25	Patil Ritesh Rajendra	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
26	Patil Rutuja Dagadu	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
27	Patil Vibhuti Vishwasrao	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
28	Rade Megha Ashok	Rade	Rade	Rade	Rade	Rade	Rade	Rade	Rade	Rade	Rade	Rade	Rade
29	Sawant Piyusha Shantanu	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant
30	Sawant Shubham Bharat	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant
31	Sawant Aniket Hanmant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant
32	Yamgar Mayuri Anil	Yamgar	Yamgar	Yamgar	Yamgar	Yamgar	Yamgar	Yamgar	Yamgar	Yamgar	Yamgar	Yamgar	Yamgar
33	Aute Mahesh Ganpatrao	Aute	Aute	Aute	Aute	Aute	Aute	Aute	Aute	Aute	Aute	Aute	Aute
34	Babar Aniket Ankush	Babar	Babar	Babar	Babar	Babar	Babar	Babar	Babar	Babar	Babar	Babar	Babar
35	Jadhav Rushikesh Dilip	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav
36	Kadam Satyajit Kumar	Kadam	Kadam	Kadam	Kadam	Kadam	Kadam	Kadam	Kadam	Kadam	Kadam	Kadam	Kadam
37	Kate Vikram Jagannath	Kate	Kate	Kate	Kate	Kate	Kate	Kate	Kate	Kate	Kate	Kate	Kate
38	Kaule Aniket Vasant	Kaule	Kaule	Kaule	Kaule	Kaule	Kaule	Kaule	Kaule	Kaule	Kaule	Kaule	Kaule
39	Kumbhar Shivraj Vilas	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar
40	Lad Yogeshwar Ashok	Lad	Lad	Lad	Lad	Lad	Lad	Lad	Lad	Lad	Lad	Lad	Lad
41	Mohite Ajay Raghunath	Mohite	Mohite	Mohite	Mohite	Mohite	Mohite	Mohite	Mohite	Mohite	Mohite	Mohite	Mohite
42	More Pawan Suresh	More	More	More	More	More	More	More	More	More	More	More	More
43	Mulla Akram Shamshuddin	Mulla	Mulla	Mulla	Mulla	Mulla	Mulla	Mulla	Mulla	Mulla	Mulla	Mulla	Mulla
44	Pathan Sohel Akil	Pathan	Pathan	Pathan	Pathan	Pathan	Pathan	Pathan	Pathan	Pathan	Pathan	Pathan	Pathan



45	Patil Aishwarya Satish	<del>Patil</del>	<del>Asatli</del>	<del>Patil</del>	<del>Patil</del>	<del>Asatli</del>	<del>Patil</del>	<del>Patil</del>	<del>Patil</del>	<del>Patil</del>	<del>Asatli</del>	<del>Patil</del>	<del>Asatli</del>
46	Patil Aniket Rajendra	ARPatil	ARPatil	ARPatil	ARPatil	ARPatil	ARPatil	ARPatil	ARPatil	ARPatil	ARPatil	ARPatil	ARPatil
47	Patil Pratap Balaso	PRPatil	PRPatil	PRPatil	PRPatil	PRPatil	PRPatil	PRPatil	PRPatil	PRPatil	PRPatil	PRPatil	PRPatil
48	Patil Sumit Ishwar	SPatil	SPatil	SPatil	SPatil	SPatil	SPatil	SPatil	SPatil	SPatil	SPatil	SPatil	SPatil
49	Sawant Shubham Sanjay	SSawant	SSawant	SSawant	SSawant	SSawant	SSawant	SSawant	SSawant	SSawant	SSawant	SSawant	SSawant
50	Shinde Sagar Shankar	SShinde	SShinde	SShinde	SShinde	SShinde	SShinde	SShinde	SShinde	SShinde	SShinde	SShinde	SShinde

For  
Coordinator  
(Mr. D. P. Lawari)



WPTG  
Head  
Dept. of Chemistry  
A. S. C. College  
Ramanandnagar (Burl)

**Rayat Shikshan Sansthas**  
**Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burl)**  
**Department of Chemistry**  
**Preparation Of Household Chemicals (2020-21)**

**Student Present**

Sr. No.	Name of the Student	01/02	03/02	13/02	15/02	17/02	22/02	26/02	01/01	16/01	30/01	13/02	25/02
1	Babar Amruta Ankush	A Babar	A Babar	A Babar	A Babar	A Babar	A Babar	A Babar	A Babar	A Babar	A Babar	A Babar	A Babar
2	Chavan Aniket Anil	Achavan	Achavan	Achavan	Achavan	Achavan	Achavan	Achavan	Achavan	Achavan	Achavan	Achavan	Achavan
3	Chavan Prajakta Vitthal	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan	Chavan
4	Chougule Sanket Ashok	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC	SAC
5	Howal Omkar Vikas	OVHowal	OVHowal	OVHowal	OVHowal	OVHowal	OVHowal	OVHowal	OVHowal	OVHowal	OVHowal	OVHowal	OVHowal
6	Jadhav Abhishek Arun	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav
7	Jadhav Monika Ashok	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav
8	Jadhav Pooja Ananda	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja	Pooja
9	Jadhav Priyanka Papat	Padhav	Padhav	Padhav	Padhav	Padhav	Padhav	Padhav	Padhav	Padhav	Padhav	Padhav	Padhav
10	Jadhav Saloni Bajarang	S.B.jade	S.B.jade	S.B.jade	S.B.jade	S.B.jade	S.B.jade	S.B.jade	S.B.jade	S.B.jade	S.B.jade	S.B.jade	S.B.jade
11	Jadhav Yogita Subhash	Just	Just	Just	Just	Just	Just	Just	Just	Just	Just	Just	Just
12	Kamble Harshada Vishwanath	HVKamble	HVKamble	HVKamble	HVKamble	HVKamble	HVKamble	HVKamble	HVKamble	HVKamble	HVKamble	HVKamble	HVKamble
13	Kamble Padmaja Chandrakant	PKKamble	PKKamble	PKKamble	PKKamble	PKKamble	PKKamble	PKKamble	PKKamble	PKKamble	PKKamble	PKKamble	PKKamble
14	Koli Omkar Sadashiv	KOS	KOS	KOS	KOS	KOS	KOS	KOS	KOS	KOS	KOS	KOS	KOS
15	Kumbhar Ganesh Dhanaji	JKKumb	JKKumb	JKKumb	JKKumb	JKKumb	JKKumb	JKKumb	JKKumb	JKKumb	JKKumb	JKKumb	JKKumb
16	Kumbhar Pratiksha Laxman	PLK	PLK	PLK	PLK	PLK	PLK	PLK	PLK	PLK	PLK	PLK	PLK
17	Mane Amit Subhash	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane	Mane
18	Mohite Shweta Dilip	S.D.mohite	S.D.mohite	S.D.mohite	S.D.mohite	S.D.mohite	S.D.mohite	S.D.mohite	S.D.mohite	S.D.mohite	S.D.mohite	S.D.mohite	S.D.mohite



19	Mujawar Parvej Harun	Mujawar	Mujawar	Mujawar	Mujawar	Mujawar	Mujawar	Mujawar	Mujawar	Mujawar	Mujawar	Mujawar	Mujawar	Mujawar
20	Mulani Sabir Zakir	Mulani	Mulani	Mulani	Mulani	Mulani	Mulani	Mulani	Mulani	Mulani	Mulani	Mulani	Mulani	Mulani
21	Mulani Sujan Zakir	Mulani	Mulani	Mulani	Mulani	Mulani	Mulani	Mulani	Mulani	Mulani	Mulani	Mulani	Mulani	Mulani
22	Mulik Tejaswini Prakash	Mulik	Mulik	Mulik	Mulik	Mulik	Mulik	Mulik	Mulik	Mulik	Mulik	Mulik	Mulik	Mulik
23	Patil Komal Sudhir	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
24	Patil Prajakta Anandrao	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
25	Patil Ritesh Rajendra	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
26	Patil Rutuja Dagadu	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
27	Patil Vibhuti Vishwasrao	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil	Patil
28	Rade Megha Ashok	Rade	Rade	Rade	Rade	Rade	Rade	Rade	Rade	Rade	Rade	Rade	Rade	Rade
29	Sawant Piyusha Shantanu	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant
30	Sawant Shubham Bharat	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant
31	Sawat Aniket Hanmant	Sawat	Sawat	Sawat	Sawat	Sawat	Sawat	Sawat	Sawat	Sawat	Sawat	Sawat	Sawat	Sawat
32	Yamgar Mayuri Anil	Yamgar	Yamgar	Yamgar	Yamgar	Yamgar	Yamgar	Yamgar	Yamgar	Yamgar	Yamgar	Yamgar	Yamgar	Yamgar
33	Aute Mahesh Ganpatrao	Aute	Aute	Aute	Aute	Aute	Aute	Aute	Aute	Aute	Aute	Aute	Aute	Aute
34	Babar Aniket Ankush	Babar	Babar	Babar	Babar	Babar	Babar	Babar	Babar	Babar	Babar	Babar	Babar	Babar
35	Jadhav Rushikesh Dilip	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav	Jadhav
36	Kadam Satyajeet Kumar	Kadam	Kadam	Kadam	Kadam	Kadam	Kadam	Kadam	Kadam	Kadam	Kadam	Kadam	Kadam	Kadam
37	Kate Vikram Jagannath	Kate	Kate	Kate	Kate	Kate	Kate	Kate	Kate	Kate	Kate	Kate	Kate	Kate
38	Kaule Aniket Vasant	S.V. Kaule	S.V. Kaule	S.V. Kaule	S.V. Kaule	S.V. Kaule	S.V. Kaule	S.V. Kaule	S.V. Kaule	S.V. Kaule	S.V. Kaule	S.V. Kaule	S.V. Kaule	S.V. Kaule
39	Kumbhar Shivraj Vilas	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar	Kumbhar
40	Lad Yogeshwar Ashok	Lad	Lad	Lad	Lad	Lad	Lad	Lad	Lad	Lad	Lad	Lad	Lad	Lad
41	Mohite Ajay Raghunath	Mohite	Mohite	Mohite	Mohite	Mohite	Mohite	Mohite	Mohite	Mohite	Mohite	Mohite	Mohite	Mohite
42	More Pawan Suresh	More	More	More	More	More	More	More	More	More	More	More	More	More
43	Mulla Akram Shamsuddin	Mulla	Mulla	Mulla	Mulla	Mulla	Mulla	Mulla	Mulla	Mulla	Mulla	Mulla	Mulla	Mulla
44	Pathan Sohail Akil	Pathan	Pathan	Pathan	Pathan	Pathan	Pathan	Pathan	Pathan	Pathan	Pathan	Pathan	Pathan	Pathan



45	Patil Aishwarya Satish	<del>APati</del>	<del>APati</del>	<del>APati</del>	<del>APati</del>	<del>APati</del>	<del>APati</del>	<del>APati</del>	<del>APati</del>	<del>APati</del>	<del>APati</del>	<del>APati</del>	<del>APati</del>
46	Patil Aniket Rajendra	APati	APati	APati	APati	APati	APati	APati	APati	APati	APati	APati	APati
47	Patil Pratap Balaso	<del>APati</del>	<del>APati</del>	<del>APati</del>	<del>APati</del>	<del>APati</del>	<del>APati</del>	<del>APati</del>	<del>APati</del>	<del>APati</del>	<del>APati</del>	<del>APati</del>	<del>APati</del>
48	Patil Sumit Ishwar	SPW	SPW	SPW	SPW	SPW	SPW	SPW	SPW	SPW	SPW	SPW	SPW
49	Sawant Shubham Sanjay	SSad	SSad	SSad	SSad	SSad	SSad	SSad	SSad	SSad	SSad	SSad	SSad
50	Shinde Sagar Shankar	SShinde	SShinde	SShinde	SShinde	SShinde	SShinde	SShinde	SShinde	SShinde	SShinde	SShinde	SShinde

For  
 Mr. D. P. Kawari  
 Coordinator

*Up to*  
 Head  
 Dept. of Chemistry  
 A. S. C. College  
 Ramanandnagar (Burla)



Rayat Shikshan Sanstha's  
Dr. Patangarao Kadam Mahavidyalaya Ramanandnagar (Burli)  
Department of Chemistry  
**SHORT TERM COURSE PREPARATION OF HOUSEHOLD CHEMICAL  
2010-21 EXAMINATION**  
**SUBJECT: - BASIC CONCEPT OF HOUSEHOLD CHEMICALS (Paper -D)**

DATE; - 27/02/2021  
DAY: - Friday

TIME: - 12.00 am to 01.00 pm  
Marks: - 50

**Que. 1] Select the most correct alternative from the following and rewrite the sentence.  
(10M)**

- i) Gram equivalent wt of solute per litre of solvent is called as.....
- |              |             |
|--------------|-------------|
| a) Normality | b) Molarity |
| c) Molality  | d) Grams    |
- ii) The proton donor substance are called as.....
- |                 |                  |
|-----------------|------------------|
| a) Acid         | b) Base          |
| c) Both a and b | d) none of these |
- iii) 15 % solution of a substance contains ..... gm in to 100 ml solvent.
- |         |       |
|---------|-------|
| a) 15   | b) 20 |
| c) 10.5 | d) 11 |
- iv) Which of the following is not the unit of concentration.....
- |              |             |
|--------------|-------------|
| a) Normality | b) Molarity |
| c) Molality  | d) kg       |
- v) Which of the following is not a cleaning agent.
- |                  |           |
|------------------|-----------|
| a) Soya been oil | b) Dettol |
| c) Lysol         | d) Savlon |

**Que.2] Answer the following questions (any four) (20 M)**

- i) What are acid and bases? Explain in detail acid and bases with example.
- ii) Define the term Normality, Molarity, and Molality.
- iii) How will you prepare 1000ml 0.1 N and 1000ml 0.5N oxalic acid solution?
- iv) What is mean by titration give the type of titrations?
- v) Define the term indicators. Give their types and theory of indicators.

**Que.3] Attempt any two of the following. (20 M)**

- i) Give the different uses of Household Chemicals.
- ii) Explain the concept mole. Describe the term equivalent Weight and molecular weight.
- iii) Explain the Preparation of sanitary Acid.

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**Rayat Shikshan Sanstha's**  
**Dr. Patangarao Kadam Mahavidyalaya Ramanandnagar (Burli)**  
**Department of Chemistry**  
**SHORT TERM COURSE PREPARATION OF HOUSEHOLD CHEMICAL**  
**2020-21 EXAMINATION**

**SUBJECT: - MECHANISM, PRECAUTION AND CLEANING ACTION OF**  
**HOUSEHOLD CHEMICALS (Paper -II)**

**DATE; - 27/02/2021**  
**DAY: - Friday**

**TIME: - 01.00 am to 02.00 pm**  
**Marks: - 30**

**Que. 1] Select the most correct alternative from the following and rewrite the sentence. (10M)**

- i) Phenol is ..... Hydroxyl compound.
- |              |                  |
|--------------|------------------|
| a) Aliphatic | b) aromatic      |
| c) Cyclic    | d) none of these |
- ii) In phenol the -OH group is directly attach to the ..... hybridized carbon atom.
- |                    |                      |
|--------------------|----------------------|
| a) SP <sup>2</sup> | b) SP <sup>3</sup>   |
| c) SP              | d) SP <sup>3</sup> d |
- iii) Carboic acid is also known as .....
- |           |                    |
|-----------|--------------------|
| a) Phenol | b) Carboxylic acid |
| c) Phenyl | d) all of these    |
- iv) Phenyl is use as a .....
- |                 |                    |
|-----------------|--------------------|
| a) Stepper      | b) Cleaning agents |
| c) Disinfectant | d) Both b and c.   |
- v) Soaps are alkali metal salt of higher..... acids.
- |                  |          |
|------------------|----------|
| a) Alkyl         | b) Aryl  |
| c) Both a and b. | d) fatty |

**Que.2] Answer the following questions (Any four) (20M)**

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

**Que.3] Attempt any two of the following. (20 M)**

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

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Rayat Shikshan Sanstha's  
Dr. Patangarao Kadam Mahavidyalaya Ramanandnagar (Burli)  
Department of Chemistry  
**SHORT TERM CERTIFICATE COURSE**  
**"PREPARATION OF HOUSEHOLD CHEMICALS"**  
**2020-21 EXAMINATION**

**Result**

Sr. No.	Roll No	Name of the students	Marks out of 100
1	1851	BABAR AMRUTA ANKUSH	45
2	1852	CHAVAN ANIKET ANIL	53
3	1853	CHAVAN PRAJAKTA VITTHAL	48
4	1854	CHOUGULE SANKET ASHOK	40
5	1855	HOWAL OMKAR VIKAS	47
6	1856	JADHAV ABHISHEK ARUN	36
7	1857	JADHAV MONIKA ASHOK	54
8	1858	JADHAV POOJA ANANDA	47
9	1859	JADHAV PRIYANKA POPAT	36
10	1860	JADHAV SALONI BAJARANG	39
11	1861	JADHAV YOGITA SUBHASH	52
12	1862	KAMBLE HARSHADA VISHWANATH	23
13	1863	KAMBLE PADMAJA CHANDRAKANT	53
14	1864	KOLI OMKAR SADASHIV	44
15	1865	KUMBHAR GANESH DHANAJI	45
16	1866	KUMBHAR PRATIKSHA LAXMAN	42
17	1867	MANE AMIT SUBHASH	Ab
18	1868	MOHITE SHWETA DILIP	55
19	1869	MUJAWAR PARVEJ HARUN	40
20	1870	MULANI SABIR ZAKIR	31
21	1871	MULANI SUJAN ZAKIR	46
22	1872	MULIK TEJASWINI PRAKASH	53
23	1873	PATIL KOMAL SUDHIR	54
24	1874	PATIL PRAJAKTA ANANDRAO	46
25	1875	PATIL RITESH RAJENDRA	23
26	1876	PATIL RUTUJA DAGADU	36



27	1877	PATIL VIBHUTI VISHWASRAO	48
28	1878	RADE MEGHA ASHOK	52
29	1879	SAWANT PIYUSHA SHANTANU	45
30	1880	SAWANT SHUBHAM BHARAT	44
31	1881	SAWAT ANIKET HANMANT	52
32	1882	YAMGAR MAYURI ANIL	43
33	1883	AUTE MAHESH GANPATRAO	28
34	1884	BABAR ANIKET ANKUSH	Ab
35	1885	JADHAV RUSHIKESH DILIP	20
36	1886	KADAM SATYAJEET KUMAR	Ab
37	1887	KATE VIKRAM JAGNNATH	10
38	1888	KAULE ANIKET VASANT	22
39	1889	KUMBHAR SHIVRAJ VILAS	35
40	1890	LAD YOGESHWAR ASHOK	21
41	1891	MOHITE AJAY RAGHUNATH	23
42	1892	MORE PAWAN SURESH	Ab
43	1893	MULLA AKRAM SHAMSHUDDIN	37
44	1894	PATHAN SOHEL AKIL	33
45	1895	PATIL AISHWARYA SATISH	42
46	1896	PATIL ANIKET RAJENDRA	37
47	1897	PATIL PRATAP BALASO	43
48	1898	PATIL SUMIT ISHWAR	18
49	1899	SAWANT SHUBHAM SANJAY	10
50	1900	SHINDE SAGAR SHANKAR	34

  
**Head of Dept.**  
**Department of Chemistry**  
**Dr. Patangrao Madhav Mahavidyalaya,**  
**[Address]**



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"**

**2020-2021**

**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. Pantangrao Kadam Mahavidyalaya, Ramanandnagar (BurlI) in the year 2020-2021.

Mr. D. P. Gawari  
Course Incharge

Dr. V. B. Patil  
Head of Department

Dr. L.D. Kadam  
Principal

**Rayat Shikshan Sanstha's**  
**Dr. Patangrao Kadam Mahavidyalaya, Ramanandnagar (Burli)**  
**Department of Chemistry**  
**Year: 2020-2021**  
**Short Term Course**  
**"Preparation of Household Chemicals"**

**Report**

**01/03/2021**

The Department of Chemistry conduct the short term certificate course "Preparation of household chemicals" every year. The duration of this course is 3 months. In this year 50 students were admitted for this course. Due to pandemic situation of Covid 19 the lectures of this course was conducted online through zoom and Google meet platform.

The total marks for this course was 100. In this course there was three paper i) basic concept of household chemicals ii) mechanism Precaution and cleaning action of household chemicals iii) practical paper which includes preparation of Sanitary acids, liquid soap, white phenyl, dark phenyl and market survey of house hold chemicals.this course is succefully completed by the B.Sc. part III students. 100 mark exam was conducted in two session paper I and paper II for academic year 2020-21.

**No. of**  
**Beneficiaries - 50**

**Outcomes**

- Students gets marketing skill
- Through this course students get self-employed





**Prepared Household Chemicals by Students in Year 2020-21**



**Student Preparing Household chemicals in Year 2020-21**

  
**Head of Department**

  
**Principal**

Prereation of Household chemicals by B.Sc. III students



Sterring of the mixture of dark Phenyl and making of phenyl



Use of the Household chemical in the cleaning of the laboratory



*Wah*

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

*Kad*

**Principal,**  
**Dr. Patangrao Kadam Mahavidhyalaya,**  
**Ramanandnagar (Burl)**  
**Tal. Palus, Dist. Sangli.**