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
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

* <u>PREPARATION OF HOUSEHOLD CHEMICALS</u> <u>Syllabus</u>

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

Unit I:- Domestic chemicals

- 1.1 Introduction of domestic chemicals
- 1.2 Sanitory 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.

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 CERTIFICATE COURSE

"PREPARATION OF HOUSEHOLD CHEMICALS" 2020-21

Student list

Sr.	Roll	Name of the students	Sign
No.	No 1851	Name of the students BABAR AMRUTA ANKUSII	Ababors
2	1852	CHAVAN ANIKET ANIL	Acharm
3	1853	CHAVAN PRAJAKTA VITTHAL	Patrone
4	1854		8Ae
5	1855	HOWAL OMKAR VIKAS	Chonol
6	1856	JADHAV ABHISHEK ARUN	TAKK
7	1857	JADHAV MONIKA ASHOK	(Inda)
8	1858	JADHAV POOJA ANANDA	Poera
9	1859	JADHAV PRIYANKA POPAT	Pladral
10	1860	JADHAV SALONI BAJARANG	S. Close
11	1861	JADHAV YOGITA SUBHASH	(18us)
12	1862	KAMBLE HARSHADA VISHWANATH	Hykamble
13	1863	KAMBLE PADMAJA CHANDRAKANT	Reamble
14	1864	KOLI OMKAR SADASHIV	ROS
15	1865	KUMBHAR GANESH DHANAJI	() Dekulho
16	1866	KUMBHAR PRATIKSHA LAXMAN	AR
17	1867	MANE AMIT SUBHASH	Mone
18	1868	MOHITE SHWETA DILIP	SOMAL
19	1869	MUJAWAR PARVEJ HARUN	Mujaron
20	1870	MULANI SABIR ZAKIR	Snyoni
21	1871	MULANI SUJAN ZAKIR	Smuloni
22	1872	MULIK TEJASWINI PRAKASH	8miles
23	1873	PATIL KOMAL SUDHIR	legasti1
24	1874	PATIL PRAJAKTA ANANDRAO	Anderh
25	1875	PATIL RITESH RAJENDRA	田里二
26	1876	PATIL RUTUJA DAGADU	White
27	1877	PATIL VIBHUTI VISHAMARA	Patily
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43	1893	MULLA AKRAM SHAMSHUDDIN	(B) probl
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45	1895	PATIL AISHWARYA SATISH	Docti)
46	1896	PATIL ANIKET RAJENDRA	4/86471
47	1897	PATIL PRATAP BALASO	(PBP611)
48	1898	PATIL SUMIT ISHWAR	
49	1899	SAWANT SHUBHAM SANJAY	Spee
50	1900	SHINDE SAGAR SHANKAR	88 burns
		- DITOTAL OTHER MANAGEMENT	538h10de

Coordinator Mr. D. P. Gawari Head of Dept.

Department of Chemistry

Dr. Patangrao Kadam Mahavidhyalaya,

Ramanandhagar (Buril)



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

Theory

Sr.	Date	T			Time- 10:00 to 11:00 am
No.	Date	Name of the Lecturer	Sr.	Date	Name of the Lecturer
1	02.12.2020	Mr. D. P. Gawari	No.	>	of the Lecturer
2	03.12.2020	Dr. V. B. Patil	13	20.01.2021	Mr. Y. R. Sable
3	09.12.2020	Mr. II S. St. II	14	22.01.2021	Prof. Dr. P. B. Piste
4	10.12.2020	Mr. U. S. Shelke	15	25.01.2021	Dr. V. B. Patil
5	16.12.2020	Mr. D. A. Sasane	16	01.02.2021	Mr. D. P. Gawari
6	17.12.2020	Mr. V. R. Bhosale	17	03.02.2021	Mr. U. S. Shelke
7	04.01.2021	Mr. Y. R. Sable	18	05.02.2021	Mr. D. A. Sasane
8		Prof. Dr. P. B. Piste	19	12.02.2021	Mr. V. R. Bhosale
9	06.01.2021	Dr. V. B. Patil	20	15.02.2021	Mr. Y. R. Sable
	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

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

Head of Dopt.
Department of Chamistry

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 Kadem Mahavidhyalaya,

Ramenandnegar (Burli)

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

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9	Jadhav Priyanka Popat	Madhay	Badh	Dathar	Padhe	Godhay	Badhy	Madhay	Badhar	Mathot	Badha	Madhar	Madhay
10	Jadhav Saloni Bajarang	5 13 Jade	SIZTaele	SUJade	SæJade	s. Ogade	c. ajade	S.B.Jacke	S. CTael	S. BJud	CBJade	SAJade	S.BJacle
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35	Jadhav Rushikesh Dilip	Plathou	Radhou	Radhor	ac lad hay	Radha	(Specky	Sicidhay	Rah	Pladhon		Enthol)	Shadha
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Gor.
Coordinator
(Nr. B.P. Gawari)

HORAGINAL SUPERIOR SU

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

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

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5	Howal Omkar Vikas	ONHOwal		OVHarel			SAC	OVHOWOR	SAC MINNI	8A.e	BAC	SAC	SAC
6	Jadhav Abhishek Arun	Obbbs			JABH,		JAKH.	(Inbh)	JABA)				POWSEVO
7	Jadhav Monika Ashok	Talhor	Todos	V	Tatos	-		Tadhen	Todhas	TABKI	JABA ?	(noh)	V
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34	Babar Aniket Ankush	ABabo	ABaben	AlBobes	Allo	Acabes	Alabon	Alabor	Alabay.	Atabon	Allaban	A Bobon	Froton
35	Jadhav Rushikesh Dilip	@ colley	Riadhay	Richar	Budle	Badher	Speakon	Plaghon	Gladkay (Dalla!	re log hay	12 Joshan	Fladra
36	Kadam Satyajeet Kumar	8 Kadan	Extenden	Skkada	Skake	Sktaden	SKKady	Kodon	EKKado	SKKata	Strade	8k forker	SKKOKON
37	Kate Vikram Jagnnath	VKale	Ykate	Wate	VKate	VKats	Veate	Vkote	Vivole	VKote	VKote	VKale	Vkole
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41	Mohite Ajay Raghunath	Antite	Arzachin	ARRObit	Amoha	e ARPohin	& Are Proprie	* A Grown	ARRIGH	Admohr	ARMA	ARMY.	ARbohite
42	More Pawan Suresh	popore	Ponore			Fron	Possore	Pomon	Some	Race		Por	Priore
43	Mulla Akram Shamshuddin	British .	Basin	F. C	Bowle (Bryon	3 mages	37mm	3 17000		Batter (_	2 reprisos
44	Pathan Sohel Akil	Salhon	S Kan	A COMPANY	Feethor		Southon		Sathon		Sathan	20	Sofhern
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45	Patil Aishwarya Satish	Rock	Dat 1	APOSI)	AP&II	ABadi)	-APartil	·Bet	Profil.	Aradis	Propor	Ast 1-	APadi)
46	Patil Aniket Rajendra	APPodi1	Aspali	though	Mega	(2 Poli)	APPORI	ARPOY1)	Azpail	18 Poli)	FRAdi	FR Poti	ARTAGIL
47	Patil Pratap Balaso	(3) (a)	(Blepedil	Pizzadil	193pol1	Feroti	(Baspali)	(Pegadi)	Beroli'	(Bistoq!)	(Bistrati)	(91990d)10	BBbalil
48	Patil Sumit Ishwar	8Pm	Stw	Stru.	Etem	Sim	Shon	Shin	Spw	Spur	Spul	Say	Spen
49	Sawant Shubham Sanjay	8880.4	- 53864x	Served	Sesse	SSSul	85261	8844	SHE	Stuf	5-150	SSR)	Lolle .
50	Shinde Sagar Shankar	Stoping	Sthing	Sting	Sashin	_58 hirela	String	S& Find	Spline	830 Lm	-38thrp.	s& hing	osshing

M. D. P. Grawcori Coordinator Head Dept. of Chemistry A. S. C. College Ramanandnagar (Burli)



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 -I)

DATE; - 27/02/2021 DAY: - Friday TIME: - 12.00 am to 01.00 pm

Marks: - **5**0

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 ď) kg v) Which of the following is not a cleaning agent. b) Dettol a) Soya been oil

Oue.2] Answer the following questions (any four)

c) Lysol

(20 M)

d) Savlon

- 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.

Dr. Patangarao Kadam Mahavidyalaya Ramanandnagar (Burli)

Department of Chemistry

SHORT TERM COURSE PREPARATION OF HOUSEHOLD CHEMICAL 2010-21 EXAMINATION

<u>SUBJECT: - MECHANISM, PRECAUSION AND CLEANING ACTION OF</u> <u>HOUSEHOLD CHEMICALS (Paper –II)</u>

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 t	he sentence.
(10M)			

i) Phenol is	Hydroxyl comp	ound.
	a) Aliphatic	b) aromatic
	c) Cyclic	d) none of these
ii) In phenol	the -OH group is directly a	ttach to thehybridized carbon
atom.		
	a) SP2	b) SP ³
	c) SP	d) SP³d
iii) Carbolic	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 f	our) (20M)
i) How will ye	ou prepared phenol from chi	lorobenzene by DOW- process.
ii) Give the th	ree properties of phenol.	an are an illum ye
iii) Give the us	ses of liquid soap.	
iv) Give the us	ses of phenyl.	
v) Give the pr	ocedure used for the prepara	ation white and black phenyl
Que.3] Attempt any	two of the following.	(20 M)
i) Give th	e Methods of synthesis of p	henol
ii) Give th	e uses of white phenyl and l	black phenyl
iii) Discuss	the Manufacture of liquid	soap
***********	**************	*****************

Dr. Patangarao Kadam Mahavidyalaya Ramanandnagar (Burli) Department of Chemistry SHORT TERM CERTIFICATE COURSE

"PREPARATION OF HOUSEHOLD CHEMICALS" 2020-21 EXAMINATION

Result

Sr. No.	Roll		Marks out of
140.	No	Name of the students	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. Patengrae Kadem Metankibushus.



Dr. PATANGRAO KADAM MAHAVIDYALAYA RAMANANDNAGAR (BURLI),

CERTIFICATE

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*	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.								
*	Dor	wells/	Okad					
**	Mr. D. P. Gawari Course Incharge	Dr. V. B. Patil Head of Department	Dr. L.D. Kadam Principal					
会会会								

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







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Prepared Household Chemicals by Students in Year 2020-21



Student Preparing Household chemicals in Year 2020-21

Head of Department

Principal

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44444

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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





My

Head of Dept.

Department of Chemistry

Dr. Patangrao Kadam Mahavidhyalaya

Ramanandnagar (Burli)

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