

RAYAT SHIKSHAN SANSTHA'S  
RAJARSHI CHH. SHAHU COLLEGE, KOLHAPUR.

DEPARTMENT OF CHEMISTRY

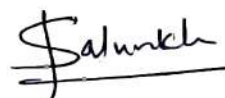
08/10/2019

**Notice**

All the students of the college are informed that, Certificate course "Preparation of Household Chemicals" is being started in our college by the Department of Chemistry; all the interested students should submit their names to the Coordinator Dr. K. V. Gaikwad Sir.



Coordinator  
Dr. K. V. Gaikwad



**Principal,**  
Rajarshi Chh. Shahu College  
Kolhapur.

Rajarshi Chhatrapati Shahu college, Kolhapur  
Department of chemistry  
"Preparation of Household chemicals"  
List of Students 2019-20

Sr.	Name of student	Contact No.	Address
1	Aitawade Pranoti vilas	9823331752	A/P-Nagain vetal chowk, Kolhapur.
2	Ambi Sonam Shrikant	9579646366	A/P-Chinchwad, Kolhapur.
3	Amrute Varun Suhas	8888225436	A/P- Koyana Colony, Gandhinager,
4	Arifkadir Mahamad Arakam	9370075729	A/P-Vikramnager, Kolhapur.
5	Bagwan Arbaj Majid	9142809191	A/P-Shiroli, Kolhapur.
6	Bargir Alija Murad	9922893319	A/P-Bindu Chowk, Kolhapur.
7	Bhendwade Maseera Shakeel	9922893319	A/P- Kadamwadi, Kolhapur
8	Chougule Pratiksha Madhuker	9022056307	A/P-Nagaon, Chougule Mala, behind
9	Chougule Shweta Sanjay	9860433262	A/P-Mauje, Vadgaon, Kolhapur.
10	Gund Santaji Shankar	7387853215	A/P- Kadamwadi, Kolhapur
11	Jadhav Urjita Uttam	9373841525	A/P-Marawadi, Tal-Mangalwedha,
12	Jagtap Shrikrushna Baliram	9075461727	A/P-USmanabad, Jijaunager.
13	Lokhande Swapnil Dilip	8855005206	A/P-Gandhinager, Kolhapur.
14	Mali Vishakha Bajrang	7083047362	A/P-Atigre, Tal- Hatkanangale, Dist-
15	Marufa Yasin Shahediwan	7517829077	A/P-Near Shahu Maidan, Kolhapur.
16	Mogale Shubham Rameshwar	9370727034	A/P-Pimpalgaon, Kalam, Dist-
17	Niman Aakash Shanker	9326267575	A/P- Bhosale Park, kadamwadi.
18	Patil Pranita Rajgonda	9970940445	A/P-Herle, Kolhapur.
19	Patil Rahul Dattatray	9119568291	A/P- Bamani Tal-kagal, Dist-
20	Patil Raturaj Dadaso	7219154496	A/P-Pattankadoli, Kolhapur.
21	Patil Satyajeet Suresh	7721091052	A/P-Jadhavwadi, Kolhapur.
22	Pawar Nikita Dhananjay	7218481963	A/P-Yadavwadi road, shiroli (pu)
23	Pawar Pallavi Suresh	9373841525	A/P- Marawadi, Tal-Mangalwedha,
24	Pawar Sunil Yashwant	7071913914	A/P- Marawadi, Tal-Mangalwedha,
25	Ravan Ankita Arun	7020645059	A/P-Shiroli Pulachi, Kolhapur.
26	Shaikh Simran Altaf	7775009072	A/P-Wadanage, Kolhapur.
27	Thamake Rushikesh Dilip	7261967748	A/P- Shiroli, Tal- Hatkanangale, Dist-
28	Thorbole Dharamraj Shivaji	7756964755	A/P- Kadamwadi, Kolhapur, Pin-

  
(Dr. Kishor V Gaikwad)  
Co-ordinator



  
Principal,  
Rajarshi Chh. Shahu College  
Kolhapur.



RAYAT SHIKSHAN SANSTHA'S  
RAJARSHI CHHATRAPATI SHAHU COLLEGE, KOLHAPUR  
DEPARTMENT OF CHEMISTRY

CERTIFICATE COURSE IN PREPARATION OF HOUSEHOLD  
CHEMICALS

**Time Table 2019-20**

S. No.	Time pm	MON	TUE	WED	THU	FRI	SAT
1	4.30- 5.30 pm	PSI	ASP	PSI	SNP	KVG	SCM
2	9.00- 10.30 a.m.						KVG/SNP/SCM PRACTICAL

KVG- Dr. Kishor V Gaikwad

PSI- Mr. P. S. Ingole

SNP- Miss. S. N. Patil

SCM- Miss. S. C. More

ASP- Miss. A. S. Prabhavalikar

Co-Ordinator



(Dr. Kishor V Gaikwad)



Head of Department  
**Head**

Department of Chemistry  
Rajarshi Chh. Shahu College, Kolhapur

RAJARSHI CHHATRAPATI SHAHU COLLEGE, KOLHAPUR  
DEPARTMENT OF CHEMISTRY  
PREPARATION OF HOUSEHOLD CHEMICAL COURSE  
YEAR -2019-2020 EXAMINATION

SUBJECT- BASIC CONCEPT OF HOUSEHOLD CHEMICALS (Paper-I)

Date: /04 / 2020

TIME: 01.30 pm to 03.00 pm

Day:

Marks: 30

Que. 1] Select the most correct alternative from the following and rewrite the sentence. (5M )

- i) .....is the base according to Bronsted theory concept as well as Lewis concept.  
a)  $\text{NH}_3$  b)  $\text{NaOH}$   
c)  $\text{C}_6\text{H}_5\text{OH}$  d)  $\text{CH}_3\text{OH}$
- ii)  $\text{HNO}_3 + \text{NH}_3 \rightarrow \text{NH}_4^+ + \text{NO}_3^-$  in this reaction the conjugate base of nitric acid is.....  
a)  $\text{NO}_3^-$  b)  $\text{NH}_4^+$   
c)  $\text{NH}_3$  d)  $\text{HNO}_3$
- iii) Equivalent weight of  $\text{NaOH}$  is .....  
a) 40 b) 50  
c) 30 d) 60
- iv) Which of the following is the unit of concentration.....  
a) Normality b) Molarity  
c) Molality d) all of these
- v) Metal ion acts as.....  
a) Lewis base b) Lewis base and base  
c) Lewis acid d) none

Que.2] Answer the following questions (Anythree) (15 M)

- i) Explain Bronsted- Lowry concept of acid & Base.  
ii) Who will you prepared 1 litre 0.1 N  $\text{NaOH}$  Solution from 0.5 N  $\text{NaOH}$  Solution.  
iii) Explain in detailed the concept of molarity.  
iv) Explain in detailed concept Normality.

Que.3] Attempt any one of the following. (10 M)

- i) Explain the Arrhenous theory of acids and base with suitable example.  
ii) Explain Lewis theory of acids and bases with suitable example.



RAJARSHI CHHATRAPATI SHAHU COLLEGE, KOLHAPUR

DEPARTMENT OF CHEMISTRY

PREPARATION OF HOUSEHOLD CHEMICAL COURSE

YEAR -2019-2020 EXAMINATION

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

DATE: - / /2020

DAY: -

TIME: - 11.00 am to 12.30 pm

Marks: - 30



Que. 1] Select the most correct alternative from the following and rewrite the sentence. (5M)

i) Soap is ..... molecule

- |                |                |
|----------------|----------------|
| a) hydrophilic | b) hydrophobic |
| c) amphiphic   | d) ampholitic  |

ii) saponification needs.....

- |                 |                   |
|-----------------|-------------------|
| a) caustic soda | b) caustic potash |
| c) glycerine    | d) a. and b.      |

iii) Carboic acid is.....

- |                    |                 |
|--------------------|-----------------|
| a) Carboxylic acid | b) phenyl       |
| c) Phenol          | d) all of these |

iv) Soaps are alkali ..... salt of higher fatty acids.

- |                  |                  |
|------------------|------------------|
| a) metal         | b) non metal     |
| c) both a and b. | d) none of these |

v) Which of the following is non saponifying alkali?

- |                  |                  |
|------------------|------------------|
| a) NaOH          | b) KOH           |
| c) both a and b. | d) None of these |

Que.2] Answer the following questions (Any three) (15 M)

i) Give the synthesis of phenol by Raschings method.

ii) Differentiate between alcohol and phenol.

iii) Give the procedure used for the preparation of chromic acid and phenyl.

iv) What are the different types of soaps give their applications.

Que.3] Attempt any one of the following. (10 M)

i) What are the raw materials of soap industry. Discuss in details.

ii) Differentiate between soaps and detergents.

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RAJARSHI CHHATRAPATI SHAHU COLLEGE, KOLHAPUR

DEPARTMENT OF CHEMISTRY

PREPARATION OF HOUSEHOLD CHEMICAL COURSE

2019-20 EXAMINATION

SUBJECT: - Practical Course Paper III

DATE; - / /2020

DAY: -

TIME: - 11.00 am to 2.00 pm

Marks: - 40

Que: 1. Synthesis of Detergents

[15 Marks]

Que: 2. Preparation of Methyl Orange dyes.

[15 Marks]

Que: 3. Market Survey of soaps, liquid soaps.

[05 Marks]

Que: 4. Viva-voce

[05 Marks]



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RAYAT SHIKSHAN SANSTHA'S  
RAJARSHI CHH. SHAHU COLLEGE, KOLHAPUR.

Department of Chemistry

"CERTIFICATE COURSE IN PREPARATION OF HOUSE HOLD CHEMICALS" -2019-20

MARK LIST


Sr. No.	Name of Students	Paper I	Paper II	Practical	Total
1	Aitawade Pranita Vilas	20	24	35	79
2	Rushikesh Dilip Thamake	21	24	34	79
3	Shweta Sanjay Chougule	20	18	32	70
4	Ruturaj Dadasaheb patil	21	22	35	78
5	Bhendwade Maseera Shakeel	20	25	34	79
6	Pallavi Suresh Pawar	24	26	34	84
7	Jagtap Shrikrushna Baliram	23	23	35	81
8	Rahul Dattatray patil	20	21	34	75
9	Simran Altaf sheikh	23	15	30	68
10	Sonam Shrikant Ambi	17	26	35	78
11	Santaji Shankar Gund	20	27	35	82
12	Nikita Dhananjay Pawar	23	23	34	80
13	Arbaj Majid Bagwan	22	24	35	81
14	Ankita Arun Ravan	24	26	35	85
15	Satyajeet suresh patil	20	21	34	75
16	Swapnali Dilip Lokahande	19	26	35	80
17	Dharmaraj shivaji thorbole	23	21	34	78

18	Vishakha bajrang mali	26	26	36	88
19	Pranita Rajgonda Patil	21	21	35	77
20	Aalfija Murad Bargir	24	24	35	83
21	Vaibhav Hanamantarao pawar	19	25	32	76
22	Shanediwan marufa yasin	23	15	30	68
23	Shubham Rameshwar Mogale	25	15	30	70
24	MohamadArakam Arif Kadir	AB	AB	AB	AB
25	Akash Jaysing Niman	18	23	35	76
26	Varun suhas amrute	19	15	34	68
27	Chougule Pratiksha Madhukar	18	23	35	76
28	Jadhav Urjita Uttam	21	22	35	78

Sr. No.	Name of the student	%
1	Vishakha bajrang mali	88
2	Ankita Arun Ravan	85
3	Pallavi Suresh Pawar	84

  
Course Co-coordinator  
[Dr. K. V. Gaikwad]



  
Head,  
Department of Chemistry  
Rajarshi Chh. Shahu College, Kolhapur



Rayat Shikshan Sanstha's  
**Rajarshi Chhatrapati. Shahu college, Kolhapur**  
**Department of chemistry**

Organized Short Term Courses on,

**"Preparation of Household chemicals"**

**Report 2019-20**

Department of Chemistry organizes the certificate Short term course on **"Preparation of Household chemicals"** for B.Sc II students, for the academic year 2019-20. The main objective of this course is-

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





For this course the fees of **Rs-300** charged for the students. **Total 28 students** admitted and benefitted under this course. Students understand the concept of different types of household chemicals in the context of Chemistry. Students learned different kind of laboratory experiment related skills enhanced, they learn to do various Volumetric titration, Conductometric titration, Preparation of standard solutions, Preparation of phenyls, Preparation of Soap, Preparation of Detergent Powder, Preparation of Liquid Soap and Preparation of Neel.



During theory lectures they understand the Basic Concepts in Domestic chemicals like Mole concepts, Concentration, Units of concentration, Normality, Molarity, Molality, Mole Fraction, Percentage composition by volume, Percentage composition by weight. et On completion of this course students get motivated to do a job in chemical fields by applying their knowledge. Students can prepare such a household chemicals and directly sell them into the market. **Dr. K. V. Gaikwad** worked as a Coordinator for this course and the remaining faculties support through theory lectures.

  
Co-ordinator



  
Principal,  
Rajarshi Chh. Shahu College  
Kolhapur.