

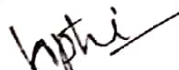
Rayat Shikshan Sanstha's
Arts, Science And Commerce College, Ramanandnagar (Burli)
Department of Chemistry
Short Term Certificate course
Notice (2018-19)

10-12-2018 to 10-02-2019

All the students of B.Sc. part III are hereby informed that the short term certificate course "*Preparation of household chemicals*" will be started from 12 December 2018 as per time table.



Course Incharge



Head of Dept.

Department of Chemistry
Arts Science and Commerce College,
Ramanandnagar (burli)



PREPARATION OF HOUSEHOLD CHEMICALS

SHIVAJI UNIVERSITY KOLHAPUR

❖ 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.

W. K.

Head of Dept.
Department of Chemistry
Dr. Patangreo Kadam Mahavidhyalaya
Ramanandnagar (Burti)



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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

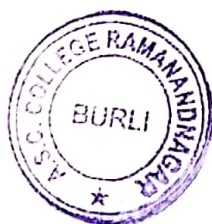


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Rayat Shikshan Sanstha's
Arts, Science And Commerce College, Ramanandnagar (Burli)
Department of Chemistry
Short Term Certificate course

Outcomes:-

- To make availability of self employment.
- To build confidence for doing business.
- To Increase skills required for business.
- To develop Knowledge of domestic chemicals.
- To develop Skill of subject knowledge on applied basis.





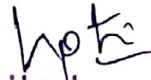
Rayat Shikshan Sanstha's
Arts, Science and Commerce College, Ramanandnagar (Burl)
Department of Chemistry
Preparation of Household Chemicals
Student list 2018-19

Sr. No	Student Name	Sign
1	Arbune kartik Bajirao	KArS
2	Arbune saurabh Mansing	SArA
3	Chalke ketan Vishwanath	CKetan
4	Chandanshive Ashwini Vijay	Achud
5	Chobe Ganesh Aba	CGA
6	Chaugule Pratiksha Suresh	Pootc
7	Chaougule Varsha Rajkumar	VArsha
8	Darade Vishal Ramdas	DVishal
9	Dhanwade Rahul Ananda	RAnS
10	Dhokle Sayli Sandesh	Sayali
11	Gaikwad Pranav Ajit	Pranav
12	Ghadage Pooja Hanmant	Pooja
13	Gondil Akshay Shankar	AKS
14	Hendre Vinayak Gajanan	Hendr
15	Howal Shubham Sanjay	Shubh
16	Jadhav Kshitija Nandhumar	KJadhav
17	Jadhav Pooja Pratap	KPooja
18	Jadhav Poonam Ambadas	Jadhav P.
19	Jadhav Ranjeet Kashinath	Ranjeet J.
20	Jadhav Shivraj Patangrao	JSR
21	Jadhav Sumesha Bapuso	JSumesha
22	Jagdale Dhiraj Santosh	JSantosh
23	Jamdade Pratiksha Nandu	Pratiksha
24	Kamble Pravin Keshav	Kambl P
25	Kamble Sayali K.	KSK
26	Kavale Aniket Baliram	AKavale
27	Khambalkar Priyanka Narayan	KPriyanka
28	Kharat Alka Bhanudas	AKharat
29	Kharat Kishor Nandkumar	KKharat
30	Kharat Sarika Pandurang	SKharat
31	Kharje Ramchandra Shivaji	SKharje
32	Khatri Shyam sundar Chandanmal	SKhatri
33	Kumbhar Akshay Sanjay	AKumbhar
34	Lengare Mahesh Shankar	MLengare
35	Magdum Chandrakant Pandurang	CMagdum
36	Mahind Gaurav Popatrao	MGaurav



37	Mane Tanaji Ravsaheb	Mane T.
38	Mohite Vipul Dashrath	VMohite
39	Mulani Harun Narmanammad	Hmulani
40	Nalavade Nikita Shankar	N.Nalavade
41	Pandhare Harshada Hanmant	HP
42	Patil Ashwini Mahadev	A.Patil
43	Patil Pratika Madhukar	PP
44	Patil Pruthviraj Dhananjay	P.P.
45	Patil Rakesh Ramchandra	Rakesh P.
46	Patil Sahil Uttam	SP
47	Patil Sarika Babaso	SP
48	Phadtare Aboli Narayan	AP
49	Phuke Rohit Uttam	Rphuke
50	Pisal shweta Bharat	SP
51	Sawant Komal Mahadev	Komal S.
52	Sawant Komal Vitthal	Sawant
53	Sawant Rutuja Ashok	RA
54	Sawant Sushant Sarjerao	SS
55	Sawant Tejshree Ramesh	TS
56	Shinde Poonam Hanmant	PShinde
57	Shinde Prajwal Bajirao	PS
58	Shinde Suraj Himmat	SS
59	Sisal Shubhankar Govind	SS
60	Sorate Omkar Goutam	OS
61	Thorbole Pradip Mahadev	PT
62	Thorbole Sonali Prakash	ST
63	Vadar Nakusha Baban	Vadar N.
64	Vibhute Shivtej Manik	Vibhute S.
65	Yadav Ajay Tatyaso	A.Yadav
66	Yadavpatil Rohit Sadashiv	RYadav




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

RayatShikshanSanstha's
Arts, Science and Commerce College, Ramanandnagar (Burla)
Tal- Palus, Dist- Sangli (Maharashtra)


Department of Chemistry
Value added course
Preparation of Household Chemicals


Time Table 2018-19

Time: 10.30 to 11.15 am Theory

Time: 08.00 to 11.00 am Practical

Sr. No.	Date	Name of the teacher	Sr. No.	Date	Name of the teacher	Sr. No.	Date	Name of the teacher
1	05.12.2018	Miss. S. T. Patil	1	02.01.2019	Miss. S. T. Patil	1	06.02.2019	Miss. S. T. Patil
2	06.12.2018	Miss. S. T. Patil	2	03.01.2019	Miss. S. T. Patil	2	07.02.2019	Miss. S. T. Patil
3	12.12.2018	Miss. M. S. Chavan	3	04.01.2019	Miss. M. S. Chavan	3	08.02.2019	Mr. A. K. Jadhav
4	13.12.2018	Miss. M. S. Chavan	4	09.01.2019	Miss. M. S. Chavan	4	13.02.2019	Miss. M. S. Chavan
5	14.12.2018	Miss. S. T. Patil	5	10.01.2019	Miss. M. S. Chavan	5	14.02.2019	Miss. M. S. Chavan
6	19.12.2018	Mr. A. K. Jadhav	6	11.01.2019	Miss. M. S. Chavan	6	15.02.2019	Mr. A. K. Jadhav
7	20.12.2018	Mr. A. K. Jadhav	7	16.01.2019	Mr. A. K. Jadhav	7	20.02.2019	Mr. A. K. Jadhav
8	21.12.2018	Miss. S. T. Patil	8	17.01.2019	Mr. A. K. Jadhav	8	21.02.2019	Mr. A. K. Jadhav
9	26.12.2018	Mr. U. S. Shelke	9	18.01.2019	Miss. M. S. Chavan	9	22.02.2019	Mr. A. K. Jadhav
10	27.12.2018	Dr. V. B. Patil	10	23.01.2019	Mr. U. S. Shelke	10	27.02.2019	Mr. U. S. Shelke
11	28.12.2018	Miss. S. T. Patil	11	24.01.2019	Dr. V. B. Patil	11	28.02.2019	Dr. V. B. Patil

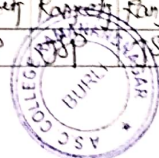

Course Coordinator
(Mr. U. S. Shelke)


Head of the Department
(Dr. V. B. Patil)

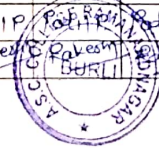
Rayat Shikshan Sansthas
Arts, Science and Commerce College, Ramanandnagar (Burli)
Department of Chemistry
Preparation Of Household Chemicals (2018-19)

Practice Student Present Practice

Sr. No.	Name of the Student	10/12/18	11/12	12/12	13/12	17/12	18/12	19/12	20/12	25/12	26/12	27/12	31/12/18
1	Arbune Kartik Bajirao	KAB	KAB	KAB	KAB	KAB	KAB	KAB	KAB	KAB	KAB	KAB	KAB
2	Arbune Saurabh Mansing	SAB	SAB	SAB	SAB	SAB	SAB	SAB	SAB	SAB	SAB	SAB	SAB
3	Chalke Ketan Vishwanath	CKA	CKA	CKA	CKA	CKA	CKA	CKA	CKA	CKA	CKA	CKA	CKA
4	Chandanshive Ashwini Vijay	ACH	ACH	ACH	ACH	ACH	ACH	ACH	ACH	ACH	ACH	ACH	ACH
5	Chobe Ganesh Aba	GCA	GCA	GCA	GCA	GCA	GCA	GCA	GCA	GCA	GCA	GCA	GCA
6	Chougule Pratiksha Suresh	PCS	PCS	PCS	PCS	PCS	PCS	PCS	PCS	PCS	PCS	PCS	PCS
7	Chougule Varsha Rajkumar	VCS	VCS	VCS	VCS	VCS	VCS	VCS	VCS	VCS	VCS	VCS	VCS
8	Darade Vishal Ramdas	DVA	DVA	DVA	DVA	DVA	DVA	DVA	DVA	DVA	DVA	DVA	DVA
9	Dhanawade Rahul Ananda	RHA	RHA	RHA	RHA	RHA	RHA	RHA	RHA	RHA	RHA	RHA	RHA
10	Dhokale Sayali Sandesh	SDS	SDS	SDS	SDS	SDS	SDS	SDS	SDS	SDS	SDS	SDS	SDS
11	Gaikwad Pranav Ajit	PGA	PGA	PGA	PGA	PGA	PGA	PGA	PGA	PGA	PGA	PGA	PGA
12	Ghadage Pooja Hanmant	PHG	PHG	PHG	PHG	PHG	PHG	PHG	PHG	PHG	PHG	PHG	PHG
13	Gondil Akshay Shankar	AGS	AGS	AGS	AGS	AGS	AGS	AGS	AGS	AGS	AGS	AGS	AGS
14	Hendre Vinayak Gajanan	HVG	HVG	HVG	HVG	HVG	HVG	HVG	HVG	HVG	HVG	HVG	HVG
15	Howal Shubham Sanjay	SHS	SHS	SHS	SHS	SHS	SHS	SHS	SHS	SHS	SHS	SHS	SHS
16	Jadhav Kshitija Nandkumar	KJN	KJN	KJN	KJN	KJN	KJN	KJN	KJN	KJN	KJN	KJN	KJN
17	Jadhav Pooja Pratap	KPA	KPA	KPA	KPA	KPA	KPA	KPA	KPA	KPA	KPA	KPA	KPA
18	Jadhav Poonam Ambadas	JAP	JAP	JAP	JAP	JAP	JAP	JAP	JAP	JAP	JAP	JAP	JAP
19	Jadhav Ranjeet Kashinath	KRJ	KRJ	KRJ	KRJ	KRJ	KRJ	KRJ	KRJ	KRJ	KRJ	KRJ	KRJ
20	Jadhav Shivraj Patangrao	JSP	JSP	JSP	JSP	JSP	JSP	JSP	JSP	JSP	JSP	JSP	JSP



21	Jadhav Sumesha Bapuso	जेजधव	जेजधव	जेजधव	जेजधव	जेजधव	जेजधव	जेजधव	जेजधव	जेजधव	जेजधव	जेजधव	जेजधव
22	Jagdale Dhiraj Santosh	जेजगळे	जेजगळे	जेजगळे	जेजगळे	जेजगळे	जेजगळे	जेजगळे	जेजगळे	जेजगळे	जेजगळे	जेजगळे	जेजगळे
23	Jamadade Pratiksha Nandu	जेजमदडे	जेजमदडे	जेजमदडे	जेजमदडे	जेजमदडे	जेजमदडे	जेजमदडे	जेजमदडे	जेजमदडे	जेजमदडे	जेजमदडे	जेजमदडे
24	Kamble Pravin Keshav	कामळे	कामळे	कामळे	कामळे	कामळे	कामळे	कामळे	कामळे	कामळे	कामळे	कामळे	कामळे
25	Kamble Sayali Kamlakar	कक	कक	कक	कक	कक	कक	कक	कक	कक	कक	कक	कक
26	Kavale Aniket Baliram	आकाळे	आकाळे	आकाळे	आकाळे	आकाळे	आकाळे	आकाळे	आकाळे	आकाळे	आकाळे	आकाळे	आकाळे
27	Khambalkar Priyanka Narayan	काम्बळकर	काम्बळकर	काम्बळकर	काम्बळकर	काम्बळकर	काम्बळकर	काम्बळकर	काम्बळकर	काम्बळकर	काम्बळकर	काम्बळकर	काम्बळकर
28	Kharat Alka Bhanudas	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड
29	Kharat Kishor Nandkumar	ककड	ककड	ककड	ककड	ककड	ककड	ककड	ककड	ककड	ककड	ककड	ककड
30	Kharat Sarika Pandurang	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड
31	Khatri Shyamsundar Chandanmal	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड
32	Kumbhar Akshay Sanjay	कुम्भार	कुम्भार	कुम्भार	कुम्भार	कुम्भार	कुम्भार	कुम्भार	कुम्भार	कुम्भार	कुम्भार	कुम्भार	कुम्भार
33	Lengare Mahesh Shankar	लेंगरे	लेंगरे	लेंगरे	लेंगरे	लेंगरे	लेंगरे	लेंगरे	लेंगरे	लेंगरे	लेंगरे	लेंगरे	लेंगरे
34	Magdum Chandrakant Pandurang	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड
35	Mahind Gaurav Popatrao	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड
36	Mane Tanaji Ravasaheb	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड
37	Mohite Vipul Dashrath	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड
38	Mulani Harun Nurmahammad	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड
39	Nalawade Nikita Shankar	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड
40	Pandhare Harshada Hanmant	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड
41	Patil Ashwini Mahadev	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड
42	Patil Pratik Madhukar	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड
43	Patil Pruthviraj Dhananjay	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड
44	Patil Rakesh Ramchandra	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड	आकरोड



45	Patil Sahil Uttam	PSU	PSU	PSU	PSU	PSU	PSU	PSU	PSU	PSU	PSU	PSU	PSU
46	Patil Sarika Babaso	SPati	SPati	SPati	SPati	SPati	SPati	SPati	SPati	SPati	SPati	SPati	SPati
47	Phadtare Aboli Narayan	Aboli.P	Aboli.P	Aboli.P	Aboli.P	Aboli.P	Aboli.P	Aboli.P	Aboli.P	Aboli.P	Aboli.P	Aboli.P	Aboli.P
48	Phuke Rohit Uttam	Rphuke	Rphuke	Rphuke	Rphuke	Rphuke	Rphuke	Rphuke	Rphuke	Rphuke	Rphuke	Rphuke	Rphuke
49	Pisal Shweta Bharat	SBP	SBP	SBP	SBP	SBP	SBP	SBP	SBP	SBP	SBP	SBP	SBP
50	Sawant Komal Mahadev	Komals	Komals	Komals	Komals	Komals	Komals	Komals	Komals	Komals	Komals	Komals	Komals
51	Sawant Koml Vitthal	Swant	Swant	Swant	Swant	Swant	Swant	Swant	Swant	Swant	Swant	Swant	Swant
52	Sawant Rutuja Ashok	SRJA	SRJA	SRJA	SRJA	SRJA	SRJA	SRJA	SRJA	SRJA	SRJA	SRJA	SRJA
53	Sawant Sushant Sarjerao	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS
54	Sawant Tejashree Ramesh	Tejs	Tejs	Tejs	Tejs	Tejs	Tejs	Tejs	Tejs	Tejs	Tejs	Tejs	Tejs
55	Shinde Poonam Hanmant	Rshinde	Rshinde	Rshinde	Rshinde	Rshinde	Rshinde	Rshinde	Rshinde	Rshinde	Rshinde	Rshinde	Rshinde
56	Shinde Prajwal Bajirao	PojS	PojS	PojS	PojS	PojS	PojS	PojS	PojS	PojS	PojS	PojS	PojS
57	Shinde Suraj Himmat	Surgis	Surgis	Surgis	Surgis	Surgis	Surgis	Surgis	Surgis	Surgis	Surgis	Surgis	Surgis
58	Sisal Shubhankar Govind	SGS	SGS	SGS	SGS	SGS	SGS	SGS	SGS	SGS	SGS	SGS	SGS
59	Sorate Omkar Goutam	Omkars	Omkars	Omkars	Omkars	Omkars	Omkars	Omkars	Omkars	Omkars	Omkars	Omkars	Omkars
60	Thorbole Pradip Mahadev	PMtho	PMtho	PMtho	PMtho	PMtho	PMtho	PMtho	PMtho	PMtho	PMtho	PMtho	PMtho
61	Thorbole Sonali Prakash	SPT	SPT	SPT	SPT	SPT	SPT	SPT	SPT	SPT	SPT	SPT	SPT
62	Vadar Nakusha Baban	Vadar.N	Vadar.N	Vadar.N	Vadar.N	Vadar.N	Vadar.N	Vadar.N	Vadar.N	Vadar.N	Vadar.N	Vadar.N	Vadar.N
63	Vibhute Shivtej Manik	Vibhute	Vibhute	Vibhute	Vibhute	Vibhute	Vibhute	Vibhute	Vibhute	Vibhute	Vibhute	Vibhute	Vibhute
64	Yadav Ajay Tatyaso	A.Yadav	A.Yadav	A.Yadav	A.Yadav	A.Yadav	A.Yadav	A.Yadav	A.Yadav	A.Yadav	A.Yadav	A.Yadav	A.Yadav
65	Kharje Ramchandra Shivaji	KRS	KRS	KRS	KRS	KRS	KRS	KRS	KRS	KRS	KRS	KRS	KRS
66	Yadavpatil Rohit Sadashiv	RYsad	RYsad	RYsad	RYsad	RYsad	RYsad	RYsad	RYsad	RYsad	RYsad	RYsad	RYsad



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

Rayat Shikshan Sansthas
Arts, Science and Commerce College, Ramanandnagar (Burli)

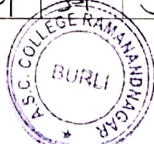
Department of Chemistry
Preparation Of Household Chemicals (2018-19)

Practical time : 2:30 pm to 5:00 pm

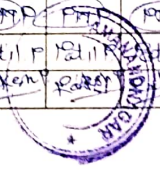
Lecture time: 11:00 am to 12:00 noon **Student Present**

Practical

Sr. No.	Name of the Student	02/01	02/01	07/01	08/01	10/01	15/01	16/01	17/01	21/01	04/02	05/02	06/02
1	Arbune Kartik Bajirao	KAB	KAB	KAB	KAB	KAB	KAB	KAB	KAB	KAB	KAB	KAB	KAB
2	Arbune Saurabh Mansing	SMA	SMA	SMA	SMA	SMA	SMA	SMA	SMA	SMA	SMA	SMA	SMA
3	Chalke Ketan Vishwanath	CKT	CKT	CKT	CKT	CKT	CKT	CKT	CKT	CKT	CKT	CKT	CKT
4	Chandanshive Ashwini Vijay	Ach	Ach	Ach	Ach	Ach	Ach	Ach	Ach	Ach	Ach	Ach	Ach
5	Chobe Ganesh Aba	GCA	GCA	GCA	GCA	GCA	GCA	GCA	GCA	GCA	GCA	GCA	GCA
6	Chougule Pratiksha Suresh	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS
7	Chougule Varsha Rajkumar	VRS	VRS	VRS	VRS	VRS	VRS	VRS	VRS	VRS	VRS	VRS	VRS
8	Darade Vishal Ramdas	DV	DV	DV	DV	DV	DV	DV	DV	DV	DV	DV	DV
9	Dhanawade Rahul Ananda	RD	RD	RD	RD	RD	RD	RD	RD	RD	RD	RD	RD
10	Dhokale Sayali Sandesh	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD	SD
11	Gaikwad Pranav Ajit	PG	PG	PG	PG	PG	PG	PG	PG	PG	PG	PG	PG
12	Ghadage Pooja Hanmant	PG	PG	PG	PG	PG	PG	PG	PG	PG	PG	PG	PG
13	Gondil Akshay Shankar	AGS	AGS	AGS	AGS	AGS	AGS	AGS	AGS	AGS	AGS	AGS	AGS
14	Hendre Vinayak Gajanan	HV	HV	HV	HV	HV	HV	HV	HV	HV	HV	HV	HV
15	Howal Shubham Sanjay	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH	SH
16	Jadhav Kshitija Nandkumar	KJ	KJ	KJ	KJ	KJ	KJ	KJ	KJ	KJ	KJ	KJ	KJ
17	Jadhav Pooja Pratap	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP	KP
18	Jadhav Poonam Ambadas	JP	JP	JP	JP	JP	JP	JP	JP	JP	JP	JP	JP
19	Jadhav Ranjeet Kashinath	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK	RK
20	Jadhav Shivraj Patangrao	JS	JS	JS	JS	JS	JS	JS	JS	JS	JS	JS	JS



21	Jadhav Sumesha Bapuso	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ
22	Jagadale Dhiraj Santosh	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ
23	Jamadade Pratiksha Nandu	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ
24	Kamble Pravin Keshav	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ
25	Kamble Sayali Kamlakar	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ
26	Kavale Aniket Baliram	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ
27	Khambalkar Priyanka Narayan	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ
28	Kharat Alka Bhanudas	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ
29	Kharat Kishor Nandkumar	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ
30	Kharat Sarika Pandurang	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ
31	Khatri Shyamsundar Chandanmal	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ
32	Kumbhar Akshay Sanjay	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ
33	Lengare Mahesh Shankar	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ
34	Magdum Chandrakant Pandurang	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ
35	Mahind Gaurav Popatrao	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ
36	Mane Tanaji Ravasaheb	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ
37	Mohite Vipul Dashrath	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ
38	Mulani Harun Nurmahammad	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ
39	Nalawade Nikita Shankar	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ
40	Pandhare Harshada Hanmant	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ
41	Patil Ashwini Mahadev	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ
42	Patil Pratik Madhukar	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ
43	Patil Pruthviraj Dhananjay	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ
44	Patil Rakesh Ramchandra	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ	ꣳꣳꣳꣳꣳ



45	Patil Sahil Uttam	PSU	PSU	PSU	PSU	PSU	PSU	PSU	PSU	PSU	PSU	PSU	PSU
46	Patil Sarika Babaso	SPatil	SPatil	SPatil	SPatil	SPatil	SPatil	SPatil	SPatil	SPatil	SPatil	SPatil	SPatil
47	Phadtare Aboli Narayan	Aboli P.	Aboli P.	Aboli P.	Aboli P.	Aboli P.	Aboli P.	Aboli P.	Aboli P.	Aboli P.	Aboli P.	Aboli P.	Aboli P.
48	Phuke Rohit Uttam	Rphuke	Rphuke	Rphuke	Rphuke	Rphuke	Rphuke	Rphuke	Rphuke	Rphuke	Rphuke	Rphuke	Rphuke
49	Pisal Shweta Bharat	SPP	SPP	SPP	SPP	SPP	SPP	SPP	SPP	SPP	SPP	SPP	SPP
50	Sawant Komal Mahadev	Komals.	Komals.	Komals.	Komals.	Komals.	Komals.	Komals.	Komals.	Komals.	Komals.	Komals.	Komals.
51	Sawant Koml Vitthal	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant	Sawant
52	Sawant Rutuja Ashok	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA	RA
53	Sawant Sushant Sarjerao	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS	SS
54	Sawant Tejashree Ramesh	Tejs	Tejs	Tejs	Tejs	Tejs	Tejs	Tejs	Tejs	Tejs	Tejs	Tejs	Tejs
55	Shinde Poonam Hanmant	Pshinde	Pshinde	Pshinde	Pshinde	Pshinde	Pshinde	Pshinde	Pshinde	Pshinde	Pshinde	Pshinde	Pshinde
56	Shinde Prajwal Bajirao	Pshinde	Pshinde	Pshinde	Pshinde	Pshinde	Pshinde	Pshinde	Pshinde	Pshinde	Pshinde	Pshinde	Pshinde
57	Shinde Suraj Himmat	Sshinde	Sshinde	Sshinde	Sshinde	Sshinde	Sshinde	Sshinde	Sshinde	Sshinde	Sshinde	Sshinde	Sshinde
58	Sisal Shubhankar Govind	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS	SSS
59	Sorate Omkar Goutam	OSorate	OSorate	OSorate	OSorate	OSorate	OSorate	OSorate	OSorate	OSorate	OSorate	OSorate	OSorate
60	Thorbole Pradip Mahadev	PTThor	PTThor	PTThor	PTThor	PTThor	PTThor	PTThor	PTThor	PTThor	PTThor	PTThor	PTThor
61	Thorbole Sonali Prakash	STThor	STThor	STThor	STThor	STThor	STThor	STThor	STThor	STThor	STThor	STThor	STThor
62	Vadar Nakusha Baban	VadarN	VadarN	VadarN	VadarN	VadarN	VadarN	VadarN	VadarN	VadarN	VadarN	VadarN	VadarN
63	Vibhute Shivtej Manik	Vibhute	Vibhute	Vibhute	Vibhute	Vibhute	Vibhute	Vibhute	Vibhute	Vibhute	Vibhute	Vibhute	Vibhute
64	Yadav Ajay Tatyaso	A.Yadav	A.Yadav	A.Yadav	A.Yadav	A.Yadav	A.Yadav	A.Yadav	A.Yadav	A.Yadav	A.Yadav	A.Yadav	A.Yadav
65	Kharje Ramchandra Shivaji	KRS	KRS	KRS	KRS	KRS	KRS	KRS	KRS	KRS	KRS	KRS	KRS
66	Yadavpatil Rohit Sadashiv	RSYadav	RSYadav	RSYadav	RSYadav	RSYadav	RSYadav	RSYadav	RSYadav	RSYadav	RSYadav	RSYadav	RSYadav



V. P. H. D.
 Head
 Dept. of Chemistry
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Rayat Shikshan Sanstha's
Arts, Science And Commerce College, Ramanandnagar (Burla)
Department of Chemistry
Short Term Certificate course
Examination 2018-19

Subject : Basic Concept of Household Chemicals (Paper I)

Date : 15/03/2019

Time : 12:00 Noon to 1:00 pm

Marks : 50

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

i) Which of the following is not the unit of concentration

- 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 containsgm 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)

(20M)

- 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 titration?

Que. 3) Answer ant two of the following Questions

(20M)

- 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
Arts, Science And Commerce College, Ramanandnagar (Burli)
Department of Chemistry
Short Term Certificate course
Examination 2018-19

Subject : Mechanism Precaution and Cleaning action of Household Chemicals (Paper II)

Date : 15/03/2019

Time : 1:00 pm to 2:00 pm

Marks : 50

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

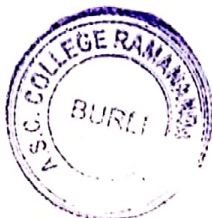
- i) Carboic acid is also known as
- a) Carboxylic Acid b) Phenol
c) Phenyl d) All of these
- ii) Phenyl is use as a
- a) Stepper b) cleaning agents
c) Disinfectant d) both a and b
- iii) In phenol -OH group is attaching to hydrized carbon atom.
- a) Sp^2 b) Sp^3
c) Sp d) Sp^3d
- iv) Phenol is Hydroxyl 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) Fatty

Que. 2) Answer the following Questions (any four) (20M)

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

Que. 3) Answer ant two of the following Questions (20M)

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



Rayat Shikshan Sanstha's
Arts, Science And Commerce College, Ramanandnagar (Burli)
Department of Chemistry
Short Term Certificate course
Marksheet List 2018-19

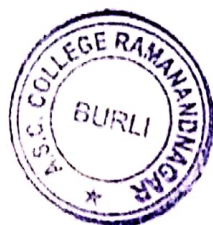
Sr. No	Name of the Student	Marks
01	Arbune Kartik Bajirav	92
02	Arbune Saurabh Mansing	94
03	Chalke Ketan Vishwanath	96
04	Chandansihve Ashwini Vijay	97
05	Chobe Ganesh Aba	93
06	Chougule Pratiksha Suresh	89
07	Chougule Varsha Rajkumar	85
08	Darade Vishal Ramdas	91
09	Dhanawade Rahul Ananda	93
10	Dhokale Sayali Sandesh	89
11	Gaikwad Pranav Ajit	84
12	Ghadage Pooja Hanmant	97
13	Gondil Akshay Shankar	91
14	Hendre Vinayak Gajanan	88
15	Howal Shubham Sanjay	83
16	Jadhav Kshitija Nandkumar	81
17	Jadhav Pooja Pratap	92
18	Jadhav Poonam Ambadas	95
19	Jadhav Ranjeet Kashinath	97
20	Jadhav Shivraj Patangrao	92
21	Jadhav Sumesha Bapuso	81
22	Jagadale Dhiraj Santosh	82
23	Jamadade Pratiksha Nandu	89
24	Kamble Pravin Keshav	88
25	Kamble Sayali Kamlakar	79
26	Kavale Aniket Baliram	91
27	Khambalkar Priyanka Narayan	94
28	Kharat Alka Bhanudas	93
29	Kharat Kishor Nandkumar	95
30	Kharat Sarika Pandurang	87
31	Kharje Ramchandra Shivaji	87
32	Khatri Shyamsundar Chandanmal	81
33	Kumbhar Akshay Sanjay	91
34	Lengare Mahesh Shankar	93
35	Magdum Chandrakant Pandurang	94



36	Mahind Gaurav Popatrao	89
37	Mane Tanaji Ravasaheb	97
38	Mohite Vipul Dashrath	95
39	Mulani Harun Nurmahammad	92
40	Nalawade Nikita Shankar	92
41	Pandhare Harshada Hanmant	94
42	Patil Ashwini Mahadev	96
43	Patil Pratik Madhukar	91
44	Patil Pruthviraj Dhananjay	89
45	Patil Rakesh Ramchandra	88
46	Patil Sahil Uttam	91
47	Patil Sarika Babaso	89
48	Phadtare Aboli Narayan	87
49	Phuke Rohit Uttam	86
50	Pisal Shweta Bharat	91
51	Sawant Komal Mahadev	94
52	Sawant Koml Vitthal	92
53	Sawant Rutuja Ashok	93
54	Sawant Sushant Sarjerao	97
55	Sawant Tejashree Ramesh	96
56	Shinde Poonam Hanmant	95
57	Shinde Prajwal Bajirao	89
58	Shinde Suraj Himmat	91
59	Sisal Shubhankar Govind	92
60	Sorate Omkar Goutam	97
61	Thorbole Pradip Mahadev	98
62	Thorbole Sonali Prakash	89
63	Vadar Nakusha Baban	84
64	Vibhute Shivtej Manik	85
65	Yadav Ajay Tatyaso	87
66	Yadavpatil Rohit Sadashiv	93

[Handwritten Signature]

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



Rayat Shikshan Sanstha's
Arts, Science and Commerce College, Ramanandnagar (Burli)
Tal-Palus Dist-Sangli.
DEPARTMENT OF CHEMISTRY
Certificate Course on
Preparation of Household Chemicals
2018-19
Annual report

The department of chemistry conduct the value added self-finance course "Preparation of Household Chemicals" every year. The duration of this course is three months. In this year 66 students admitted for this course. The course is for the 100 marks. In this course we thought three papers viz.

1. Basic concept of household chemicals
2. Mechanism precaution and cleaning action of Household chemicals and
3. Practical paper. it includes preparations of the

Sanitary Acids

Liquid soaps

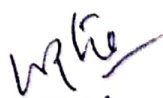
White phenyl

Dark phenyl

Market survey of household chemical, etc.

This course is succcessfully completed by the B. Sc. Part III students in the academic year 2018-19,

The total no. of the beneficiaries are 66.


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



CERT. NO.
PHC - 064

Rayat Shikshan Sanstha's
Arts, Science and Commerce College, Ramanandnagar (Burli)
Tal: Palus, Dist: Sangli, Pin: 416 308

CERTIFICATE

This is to certify that **Shri. Phuke Rohit Uttam** has successfully completed the value added course "Preparation of Household Chemicals" from Dec. 2018 to Feb. 2019 with A + Grade. The course was conducted by the department of Chemistry in the academic year 2018-19, ASC College, Ramanandnagar (Burli), Tal- Palus, Dist: Sangli -416308 (Maharashtra.)

W. Phuke
Head,

Department of Chemistry



W. Phuke
Course Coordinator