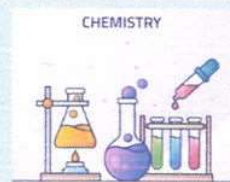




Rayat Shikshan Sanstha's,
D. P. Bhosale College, Koregaon
Department of Chemistry



Add On Course (Purification of Organic Compound)

TIME TABLE (3 Nov.- 25. Nov. 2021)
(2021-22)(UG)

Class	Time	Friday(03/11/2021)	Saturday(04/11/2021)
B.Sc.-III	11.20 am-12.08pm	Theory (SDJ)	Theory (NDN)
	12.08pm-12.56pm	Theory(NDN)	Theory(NMG)
	3.00 pm-6.00pm	Practical(SDJ)	Practical(NMG)

Class	Time	Friday(10/11/2021)	Saturday(11/11/2021)
B.Sc.-III	11.20 am-12.08pm	Theory (VSK)	Theory (NMG)
	12.08pm-12.56pm	Theory(PSP)	Theory(SDJ)
	3.00 pm-6.00pm	Practical(VSK)	Practical(NAG)

Class	Time	Friday(17/11/2021)	Saturday(18/11/2021)
B.Sc.-III	11.20 am-12.08pm	Theory (NDN)	Theory (NBP)
	12.08pm-12.56pm	Theory(NBP)	Theory(SSM)

	3.00 pm-6.00pm	Practical(NDN)	Practical(ABD)
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Class	Time	Friday(24/11/2021)	Saturday(25/11/2021)
B.Sc.-III	11.20 am-12.08pm	Theory (NDN)	Theory (VSK)
	12.08pm-12.56pm	Theory(SSM)	Theory(ABD)
	3.00 pm-6.00pm	Practical(PSP)	Practical(NMG)

SDJ - Dr. S. D. Jadhav

NDN - Dr. N. D. Nikam

NMG - Mr. N. M. Gosavi

VSK - Dr. V. S. Koshti

PSP - Dr. P. S. Patil

NAG - Miss. N. A. Ghadge

ABD - Miss. A.B. Deshmukh

NBP - Miss. N. B. Pawar

SSM - Miss. S. S. Mane

**Course
Coordinator**

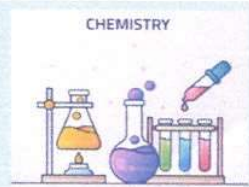

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Rayat Shikshan Sanstha's,

D. P. Bhosale College, Koregaon

Department of Chemistry



(2021-22)

Notice

Date :28/10/2021

All the Students of B.Sc.-III (Chemistry) are here by informed that Department of Chemistry going to organize your Add On Course (Purification of Organic Compounds) has been Scheduled from 03/11/2021 to 25/11/2021 Kindly, remain present at prescribed time in lecture hall.

**Course
Coordinator**

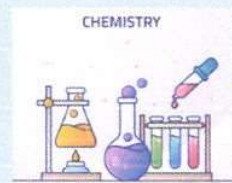
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Rayat Shikshan Sanstha's,

D. P. Bhosale College, Koregaon

Department of Chemistry



**Add On Course (Purification of Organic Compound)
2021-22 (UG)
Registration**

Sr. No.	Roll No.	Full Name
1	22561	Adsul Akash Uttam
2	22562	Ambekar Ganesh vijay
3	22563	Bandgar Shubhangi Dadasaheb
4	22564	Barge Adarsh Ramchndra
5	22565	Barge Rutuja Ramchadra
6	22566	Bhosale Sayalee Vikas
7	22567	Bhosale Shubham Shankar
8	22568	Chavan Akshay Rajendra
9	22569	Chavan Ketaki Vishal
10	22570	Dalavi Vivek Vishwanath
11	22571	Dhembare Priti Dipak
12	22572	Gaikwad Shivani Santosh
13	22573	Gavali Ankita Prsrharam
14	22574	Ghadage Prajwal Vaishwanath
15	22575	Ghadge Arpita Anandrao
16	22576	Ghadge Sonali Nandkumar
17	22577	Gharge Vaishnavi Nitin
18	22578	Ghorpade Swagat Chandrakant
19	22579	Ghorpade Vaishnavi Dilip
20	22580	Ingle Rohit Bajarang
21	22581	Jadhav Akanksha Arjun
22	22582	Jadhav Prachiti Shankar
23	22583	Jadhav Pradnya Sanjay
24	22584	Jadhav Sujata Santosh
25	22585	Jagadale Nikita Sambhaji
26	22586	Jagadale Prasad Dipak
27	22587	Jagtap Punam Ashok

28	22588	Jagtap Sakshi Vijay
29	22589	Jare Rutuja Dinesh
30	22590	Kadam Avadhut Anand
31	22591	Kenjale Rushikesh Anil
32	22592	Khatal Sanket Bhagvan
33	22593	Kudle Vaishnavi Rajesh
34	22594	Kumbhar Pratik Sandip
35	22595	Mahamuni Shraddha Vasant
36	22596	Manade Bapu Sunil
37	22597	Mane Ankita Chandrakant
38	22598	Mohite Shubham Shivaji
39	22599	More Vaibhav Shivaji
40	22600	More Vaishnavi Sandip
41	22601	Mulani Sameer Najeer
42	22602	Nade Bhagyashri Dattatray
43	22603	Naykude Nikita Gajanan
44	22604	Netke Akanksha Rajendra
45	22605	Nikam Ashwini Sunil
46	22606	Pawar Ankita Ashok
47	22607	Pawar Arati Ajay
48	22608	Pawar Nikhil Shankar
49	22609	Phadatare Onkar Namdev
50	22610	Phadtare Ankita Vitthal
51	22611	Pisal Suraj Pandurang
52	22612	Rasal Priti Appa
53	22613	Rathod Kanchan Pandurang
54	22614	Salunkhe Shubham Kalyan
55	22615	Sawant Aditi Adhik
56	22616	Shinde Anisha Sunil
57	22617	Shinde Harshada Vitthal
58	22618	Shinde Monali Sampat
59	22619	Shinde Urmila Manaji
60	22620	Shirke Dhanadhri Rajendrakumar
61	22621	Shirtode Arati Laxman
62	22622	Sonawale Kiran Shankar
63	22623	Tate Ashwini Vijay
64	22624	Tate Pranali Prabhakar
65	22625	Thorat Saurabh Sanjay
66	22626	Toraskar Sushant Dadaso

67	22627	Veer Akash Ashok
68	22628	Vibhute Snehal Jagannath
69	22629	Shinde Ganesh Bhimasen
70	22630	Kenjale Omkar Anandrao

**Course
Coordinator**

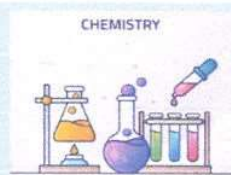

Head
Department of Chemistry
D. P. Bhosale College, Koregaon



Rayat Shikshan Sanstha's,

D. P. Bhosale College, Koregaon

Department of Chemistry



Add On Course
Question Paper (Purification of organic compound)
2021-2022

Day & Date: 05/02/2022
Time – 12:30pm to 01:00

Marks- 20

- The IUPAC name of picric acid is
 - 2,4,6-trinitrophenol
 - 2,4,6-trinitrobenzoic acid
 - 4-nitrophenol
 - None of these
- 2.58 ml of N/5 H_2SO_4 are used to neutralize ammonia given by 1 g of organic compound. Percentage of nitrogen in the compound is
 - 34.3
 - 82.7
 - 16.2
 - 21.6
- IUPAC name of $(CH_3)_2CH - CHO$ is:
 - 1-methyl-2 propanal
 - 2, 2-dimethyl propanal
 - None of these
 - 2-methyl propanal
- Which of the following relations gives the value of $n =$
 - Molecular Mass / Atomic Mass
 - Molecular Mass / Empirical Mass
 - None of these
 - Empirical Mass / Molecular Mass
- 0.2595g of an organic substance in a quantitative analysis yielded 0.35 g of the barium sulphate. The percentage of sulphur in the substance is
 - 18.52g
 - 182.2 g
 17. 5 g
 - 175.2g
- A compound on analysis was found to contain $C = 18.5\%$, $H = 1.55\%$, $Cl = 55.04\%$ and $O = 24.81\%$, then its empirical formula is

- (a) CHClO
- (b) CClOH
- (c) CHOCI
- (d) ClCHO

7. 16 mg of a compound on vaporisation in a Victor Meyer's apparatus displaces 44.8 ml of air measured at S.T.P. The molecular weight of the compound is

- (a) 116
- (b) 232
- (c) 58
- (d) 44.8

8. The vapour density of the methyl ester of an organic monocarboxylic acid is 37. What is the molecular weight of the acid

- (a) 46
- (b) 60
- (c) 70
- (d) 74

9. If 0.228 g of silver salt of dibasic acid gave a residue of 0.162g of silver on ignition then molecular weight of the acid is

- (a) 70
- (b) 80
- (c) 90
- (d) 10

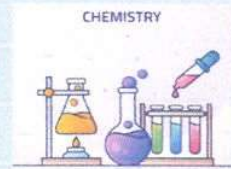
10. In Victor Mayer's method 0.2 gm of an organic substance displaced 56 ml of air at STP the molecular weight of the compound

- (a) 56
- (b) 112
- (c) 80
- (d) 28



Rayat Shikshan Sanstha's,

D. P. Bhosale College, Koregaon
Department of Chemistry



Add On Course
Model Answer Paper (Purification of organic compound)
2021-2022

Day & Date: 05/02/2022

Marks-20

Time – 12:30pm to 01:00pm

1. The IUPAC name of picric acid is

- (a) 2,4,6-trinitrophenol
- (b) 2,4,6-trinitrobenzoic acid
- (c) 4-nitrophenol
- (d) None of these

2. 58 ml of N/5 H_2SO_4 are used to neutralize ammonia given by 1 g of organic compound. Percentage of nitrogen in the compound is

- (a) 34.3
- (b) 82.7
- (c) 16.2
- (d) 21.6

3. IUPAC name of $(CH_3)_2CH - CHO$ is:

- (a) 1-methyl-2 propanal
- (b) 2, 2-dimethyl propanal
- (c) None of these
- (d) 2-methyl propanal

4. Which of the following relations gives the value of n =

- (a) Molecular Mass / Atomic Mass
- (b) Molecular Mass / Empirical Mass
- (c) None of these
- (d) Empirical Mass / Molecular Mass

5. 0.2595g of an organic substance in a quantitative analysis yielded 0.35 g of the barium sulphate. The percentage of sulphur in the substance is

- (a) 18.52g
- (b) 182.2 g

- (c) 17.5 g
- (d) 175.2g

6.f a compound on analysis was found to contain $C = 18.5\%$, $H = 1.55\%$, $Cl = 55.04\%$ and $O = 24.81\%$, then its empirical formula is

- (a) $CHClO$
- (b) $CClOH$
- (c) $CHOCI$
- (d) $ClCHO$

7.16 mg of a compound on vaporisation in a Victor Meyer's apparatus displaces 44.8 ml of air measured at S.T.P. The molecular weight of the compounds is

- (a) 116
- (b) 232
- (c) 58
- (d) 44.8

8. The vapour density of the methyl ester of an organic monocarboxylic acid is 37. What is the molecular weight of the acid

- (a) 46
- (b) 60
- (c) 70
- (d) 74

9. If 0.228 g of silver salt of dibasic acid gave a residue of 0.162g of silver on ignition then molecular weight of the acid is

- (a) 70
- (b) 80
- (c) 90
- (d) 10

10. In Victor Mayer's method 0.2 gm of an organic substance displaced 56 ml of air at STP the molecular weight of the compound

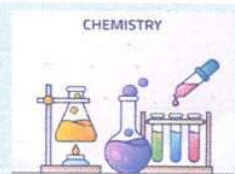
- (a) 56
- (b) 112
- (c) 80
- (d) 28



Rayat Shikshan Sanstha's,

D. P. Bhosale College, Koregaon

Department of Chemistry



**Add On Course (Purification of Organic Compound)
2021-22 (UG) Result Analysis**

Sr. No.	Roll No.	Full Name	Marks	Grade
1	22561	Adsul Akash Uttam	16	B+
2	22562	Ambekar Ganesh vijay	18	A
3	22563	Bandgar Shubhangi Dadasaheb	20	A+
4	22564	Barge Adarsh Ramchndra	20	A+
5	22565	Barge Rutuja Ramchadra	16	B+
6	22566	Bhosale Sayalee Vikas	18	A
7	22567	Bhosale Shubham Shankar	16	B+
8	22568	Chavan Akshay Rajendra	16	B+
9	22569	Chavan Ketaki Vishal	14	B
10	22570	Dalavi Vivek Vishwanath	18	A
11	22571	Dhembare Priti Dipak	18	A
12	22572	Gaikwad Shivani Santosh	20	A+
13	22573	Gavali Ankita Prsharam	14	B
14	22574	Ghadage Prajwal Vaishwanath	16	B+
15	22575	Ghadge Arpita Anandrao	18	A
16	22576	Ghadge Sonali Nandkumar	20	A+
17	22577	Gharge Vaishnavi Nitin	14	B
18	22578	Ghorpade Swagat Chandrakant	16	B+
19	22579	Ghorpade Vaishnavi Dilip	18	A
20	22580	Ingle Rohit Bajarang	20	A+
21	22581	Jadhav Akanksha Arjun	14	B
22	22582	Jadhav Prachiti Shankar	18	A
23	22583	Jadhav Pradnya Sanjay	20	A+
24	22584	Jadhav Sujata Santosh	18	A
25	22585	Jagadale Nikita Sambhaji	16	B+
26	22586	Jagadale Prasad Dipak	16	B+
27	22587	Jagtap Punam Ashok	14	B
28	22588	Jagtap Sakshi Vijay	18	A
29	22589	Jare Rutuja Dinesh	18	A

30	22590	Kadam Avadhut Anand	20	A+
31	22591	Kenjale Rushikesh Anil	14	B
32	22592	Khatal Sanket Bhagvan	16	B+
33	22593	Kudle Vaishnavi Rajesh	18	A
34	22594	Kumbhar Pratik Sandip	20	A+
35	22595	Mahamuni Shraddha Vasant	14	B
36	22596	Manade Bapu Sunil	18	A
37	22597	Mane Ankita Chandrakant	16	B+
38	22598	Mohite Shubham Shivaji	16	B+
39	22599	More Vaibhav Shivaji	14	B
40	22600	More Vaishnavi Sandip	18	A
41	22601	Mulani Sameer Najeer	18	A
42	22602	Nade Bhagyashri Dattatray	20	A+
43	22603	Naykude Nikita Gajanan	14	B
44	22604	Netke Akanksha Rajendra	16	B+
45	22605	Nikam Ashwini Sunil	18	A
46	22606	Pawar Ankita Ashok	20	A+
47	22607	Pawar Arati Ajay	14	B
48	22608	Pawar Nikhil Shankar	18	A
49	22609	Phadafare Onkar Namdev	16	B+
50	22610	Phadtare Ankita Vitthal	16	B+
51	22611	Pisal Suraj Pandurang	14	B
52	22612	Rasal Priti Appa	18	A
53	22613	Rathod Kanchan Pandurang	18	A
54	22614	Salunkhe Shubham Kalyan	20	A+
55	22615	Sawant Aditi Adhik	14	B
56	22616	Shinde Anisha Sunil	16	B+
57	22617	Shinde Harshada Vitthal	18	A
58	22618	Shinde Monali Sampat	20	A+
59	22619	Shinde Urmila Manaji	16	B+
60	22620	Shirke Dhanadhri Rajendrakumar	18	A
61	22621	Shirtode Arati Laxman	16	B+
62	22622	Sonawale Kiran Shankar	16	B+
63	22623	Tate Ashwini Vijay	14	B
64	22624	Tate Pranali Prabhakar	18	A
65	22625	Thorat Saurabh Sanjay	18	A
66	22626	Toraskar Sushant Dadaso	20	A+
67	22627	Veer Akash Ashok	14	B
68	22628	Vibhute Sneha Jagannath	16	B+

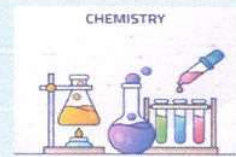
69	22629	Shinde Ganesh Bhimasen	18	A
70	22630	Kenjale Omkar Anandrao	20	A+

**Course
Coordinator**


Head
Department of Chemistry
D. P. Bhosale College, Koregaon



Rayat Shikshan Sanstha's,
D. P. Bhosale College, Koregaon
Department of Chemistry



Purification of Organic Compound (UG)
Report (2021-22)

The Organic Compounds which are prepared in Chemical Laboratory are either solids or liquids. These crude products are to be purified before spectral analysis. The compounds which are solids, can be recrystallized from a suitable solvents like water, acetone or alcohol as a single solvent or from mixed solvents like PET ether+ethyl acetate or Hexane+ diethyl ether. A care is to be taken while using volatile ethereal solvents.

The compounds which are liquids, and the colour impurity removed by heating with activated charcoal below the B.P. of the compound. The fractional distillation is utilised in order to separate two or more mixtures. It is based on the Principle that, the two miscible solvents having 10-15⁰C difference in B.P. can be separated with purification leaving behind non-volatile compound separated with colour impurities.

The medicinal plant extracts can be steam distilled to get steam volatile Organic Compound along with polar solvent like water. The method involves simple set up to use steam generator and distillation to get distillate.

About 70 students have been participated in the said course with actual demonstration and hands on training with proper guidance. After completion of the Course, certificates are conferred individually at the end of Course.

**Course
Coordinator**


Head
Department of Chemistry
D. P. Bhosale College, Koregaon

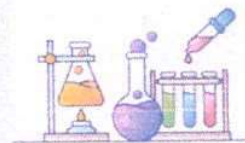


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Department of Chemistry

CHEMISTRY



Purification of Organic Compound - (2021-22)

Feedback

Name Of Student	Jadhav Akanksha Arjun
Roll. No	
Mobile. No	-
Email. Id	-

Give your Valuable feedback marking the appropriate option With

Sr. No	Course Particulars	Excellent	Good	Satisfactory	Pour
1	Transparency in conduct of the course	✓		✓	
2	Syllabus	✓			
3	Topics Taught				
4	and Overall Management	✓	✓		
5	Overall impression				

Suggestion for improving, if any



RAYAT SHIKSHAN SANSTHA'S

D. P. BHOSALE COLLEGE, KOREGAON

DIST-SATARA, MAHARASHTRA, INDIA-415501

DEPARTMENT OF CHEMISTRY

Add on COURSE

Certificate

This is to certify that, *Mr. Adsul Akash Uttam Class: B.Sc-III*
Subject: *Chemistry* Successfully completed One month Add on Course on
"Purification of Organic Compounds" with B+ grade Organized by
Department of Chemistry, in November 2021.

Mr. N. M. Gosavi
Course Coordinator

Prof. Dr. S. D. Jadhav
HoD Chemistry

Hon. Dr. V. S. Sawant
Principal



RAYAT SHIKSHAN SANSTHA'S

D. P. BHOSALE COLLEGE, KOREGAON

DIST-SATARA, MAHARASHTRA, INDIA-415501

DEPARTMENT OF CHEMISTRY

Add on COURSE

Certificate

This is to certify that, *Mr. Ambekar Ganesh Vijay Class: B.Sc-III*
Subject: *Chemistry* Successfully completed One month Add on Course on
"Purification of Organic Compounds" with A grade Organized by
Department of Chemistry, in November 2021.

Mr. N. M. Gosavi
Course Coordinator

Prof. Dr. S. D. Jadhav
HoD Chemistry

Hon. Dr. V. S. Sawant
Principal



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DIST-SATARA, MAHARASHTRA, INDIA-415501

DEPARTMENT OF CHEMISTRY

Add on COURSE

Certificate

This is to certify that, *Miss. Bandgar Subhangi Dadasaheb Class: B.Sc-III* Subject: *Chemistry* Successfully completed One month Add on Course on "Purification of Organic Compounds" with A+ grade Organized by Department of Chemistry, in November 2021.

Mr. N. M. Gosavi
Course Coordinator

Prof. Dr. S. D. Jadhav
HoD Chemistry

Hon. Dr. V. S. Sawant
Principal



RAYAT SHIKSHAN SANSTHA'S

D. P. BHOSALE COLLEGE, KOREGAON

DIST-SATARA, MAHARASHTRA, INDIA-415501

DEPARTMENT OF CHEMISTRY

Add on COURSE

Certificate

This is to certify that, Mr. Barge Adarsh Ranchendra Class: B.Sc-III Subject: Chemistry Successfully completed One month Add on Course on "Purification of Organic Compounds" with A+ grade Organized by Department of Chemistry, in November 2021.

Mr. N. M. Gosavi
Course Coordinator

Prof. Dr. S. D. Jadhav
HoD Chemistry

Hon. Dr. V. S. Sawant
Principal



RAYAT SHIKSHAN SANSTHA'S

D. P. BHOSALE COLLEGE, KOREGAON

DIST-SATARA, MAHARASHTRA, INDIA-415501

DEPARTMENT OF CHEMISTRY

Add on COURSE

Certificate

This is to certify that, *Miss. Barge Ruturaja Ramchandra* Class:
B.Sc-III Subject: **Chemistry** Successfully completed One month Add on
Course on "Purification of Organic Compounds" with B+ grade Organized
by Department of Chemistry, in November 2021.

Mr. N. M. Gosavi
Course Coordinator

Prof. Dr. S. D. Jadhav
HoD Chemistry

Hon. Dr. V. S. Sawant
Principal



RAYAT SHIKSHAN SANSTHA'S

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DIST-SATARA, MAHARASHTRA, INDIA-415501

DEPARTMENT OF CHEMISTRY

Add on COURSE

Certificate

*This is to certify that, Mr. **Adsul Akash Uttam** Class: **B.Sc-III**
Subject: **Chemistry** Successfully completed One month Add on Course on
"Purification of Organic Compounds" with B+ grade Organized by
Department of Chemistry, in November 2021.*

Mr. N. M. Gosavi
Course Coordinator

Prof. Dr. S. D. Jadhav
HoD Chemistry

Hon. Dr. V. S. Sawant
Principal