

Shetkari Shikshan Prasarak Mandal's  
Krishna Mahavidyalaya, Rethare BK.

Department of Chemistry

**IQAC 2017-18**

Sr. No	Date	Activity No.	Name of the activity	Name of the teacher	Criterion No.
1	15/03/2018	1	Industrial visit	Mr. C.Y. Chavan	
2	05/02/2018 To 12/02/2018	2	Students Seminar	Miss. V.L. Kamble	

NAME OF HEAD & SIGNATURE	IQAC COORDINATOR (SEAL & SIGNATURE)	PRINCIPAL
 Mr. C. Y. Chavan HEAD Department of Chemistry KRISHNA MAHAVIDYALAYA, SHIVNAGAR, RETHARE BK	 IQAC, Coordinator, KRISHNA MAHAVIDYALAYA, Rethare Bk; Shivnagar - 415108 Tal. Karad, Dist. Satara	 Principal Krishna Mahavidyalaya, Rethare Bk. Tal. Karad: 415 108 (MS)

Krishna Mahavidyalaya, Rethare Bk

**IQAC 2017-2018**

**ACTIVITY REPORT**

Chemistry Department

**IQAC ACTIVITY No:**

<b>NAME OF THE ACTIVITY:-</b> Industrial Visit			
<b>DATE</b>	<b>FACULTY</b>	<b>DEPARTMENT/COMMITTEE</b>	<b>COORDINATOR NAME</b>
15/03/2018	Science	Chemistry	Mr. C.Y. Chavan
<b>TIME</b>	<b>VENUE</b>	<b>NUMBER OF PARTICIPANTS</b>	<b>NATURE:</b>
9.00 a.m. to 7.00 p.m.	Sona Chemicals & Kolhapur	42	Outdoor/Indoor Outdoor
<b>SUPPORT/ASSISTANCE:</b>			


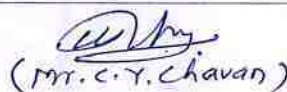

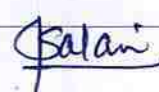
**BRIEF INFORMATION ABOUT THE ACTIVITY (CRITERION NO. -):**

<b>TOPIC/SUBJECT OF THE ACTIVITY</b>	Industrial Visit
<b>OBJECTIVES</b>	To observe actual processes carried out in the production of chemicals, as well as printing of papers.
<b>METHODOLOGY</b>	Visit
<b>OUTCOMES</b>	Students Clearly understand production of chemical, & paper printing.

**PROOFS & DOCUMENTS ATTACHED (Tick mark the proofs attached):**

1. Notice & Letters	2. Student list of	3. Activity report	4. Photos	5. Feedback form
6. Feedback analysis	7. News clip with details	8. Certificate	9. Any other	10.

IQAC CELL ACTIVITY NUMBER:

<b>NAME OF TEACHER &amp; SIGNATURE</b>	<b>NAME OF HEAD/ COMMITTEE INCHARGE &amp; SIGNATURE</b>	<b>PRINCIPALS SIGNATURE</b>	<b>IQAC COORDINATOR (SEAL &amp; SIGNATURE)</b>
	 (Mr. C.Y. Chavan) Head The Department of Chemistry KRISHNA MAHAVIDYALAYA SHIVNAGAR (RETHARE BK)	 Principal Krishna Mahavidyalaya, Rethare Bk.	 IQAC, Coordinator, KRISHNA MAHAVIDYALAYA, Rethare Bk; Shivnagar - 415108 Tal. Karad, Dist. Satara

## Krishna Mahavidyalaya, Rethare (Bk.)

### Department of Chemistry

#### Industrial Visit

B. Sc. III Year 2017-18

The Department of Chemistry had arranged an industrial visit at Sona Chemicals Islampur, Shivaji University Kolhapur, Daily Pudhari Press Kolhapur on 15<sup>th</sup> March, 2018. About 36 students and 5 staff members visited. The main purpose of the said visit was to observe actual processes carried out in the production of chemicals, to observe various latest instruments in university departments and how the news papers are actually printed in the press.

Initially we visited to the Sona chemicals industry, lab chemist gave information about production of various chemicals in the industry and its importance. Students observed all the steps involved in the production of various chemicals. Students get encouraged regarding small scale industry setting in future life. After that we visited to department of chemistry Shivaji University, Kolhapur. Students observe the instruments and how it works and helpful for research works. So many students have decided to do the M. Sc. at University.

Lastly we visited to the printing press unit of daily pudhari. All of us observed the process of printing of news paper. Students enjoyed the entire trip.

HEAD

Department of Chemistry  
KRISHNA MAHAVIDYALAYA  
WIVNAGAR (RETHARE BK.)

Date- 12/03/2018

## NOTICE

All the students of B.Sc. III (Chemistry) are hereby informed that industrial visit is organized on **Thursday 15/03/2018**, at **9:00 a.m.** The interested students may enroll their names in the department.



**HEAD**  
**The Department of Chemistry**  
**SRISHNA MAHAVIDYALAYA**  
**SHIVNAGAR / RETHARE BE.**

दि. 12/03/2018

प्रति,

मा. प्राचार्य,

कृष्णा महाविद्यालय रेतरे बु।।

**विषय :-** एक दिवसाच्या Industrial tour साठी परवानगी मिळणे बाबत.

महोदय,

आपल्या महाविद्यालयातील B.Sc.-3 रसायनशास्त्र विषयाच्या विद्यार्थ्यांसाठी एक दिवसाची Industrial tour (इस्लामपूर, कोल्हापूर इ.) दि. 15 मार्च 2018 रोजी आयोजित करणेत आली आहे तरी त्यास परवानगी मिळावी हि विनंती.

कळावे,

आपला विश्वासू

*[Signature]*  
12/03/18

for HEAD

The Department of Chemistry  
KRISHNA MAHAVIDYALAYA  
SHIVNAGAR (RETHARE BK)

*Permitted.*

*[Signature]*  
12/3/18

Dr. C. B. Salunkhe  
PRINCIPAL (I/C)  
KRISHNA MAHAVIDYALAYA  
RETHARE (BK.), TAL. KARAD



संहती कार्यसाधिका । शिलं परं भूषणम्

Shetkari Shikshan Prasarak Mandal's

**KRISHNA MAHAVIDYALAYA, RETHARE BK.**

Shivnagar, Tal. Karad, Dist. Satara, 415108 (M.S.)

Email : kmr\_sspm@yahoo.co.in Website : www.krishnamahavidyalaya.com

NAAC 'B+' Grade (CGPA 2.65)

Principal : **Dr. Salunkhe C. B.**, M.Sc., Ph.D.

Founder : **Hon. Jaywantrao Bhosale**



Ref. No. : KMR/समक्ष/2017-18

Date : 15/03/2018

To,

Assistant General Manager  
Daily Pudhari, Kolhapur

**Sub:-** To visit your well known Chemical factory/Institute/  
Museum/.....Paper industry (Printing Unit)


Sir,

A group of 36 student's of B.Sc. - III Chemistry and 05 staff are going to visit your well known Paper industry on Thursday, 15<sup>th</sup> march 2018, at about 6.30 pm.

I hope you will look in the matter personally and consider our request positively.

Thanking you.

Yours faithfully,

  
Dr. C. B. Salunkhe  
for PRINCIPAL (I/C)  
KRISHNA MAHAVIDYALAYA  
RETHARE (BK.), TAL. KARAD

  
पुढारं MIDC शिरोली.

दि. 12/03/2018

प्रति,

मा. प्राचार्य,

कृष्णा महाविद्यालय रेंठरे बु।।

**विषय :-** एक दिवसाच्या Industrial tour साठी परवानगी मिळणे बाबत.

महोदय,

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कळावे,

आपला विश्वासू

*[Signature]*  
for HEAD  
12/03/18

Department of Chemistry  
KRISHNA MAHAVIDYALAYA  
RISHNAGAR (RETHARE BK)

*Permitted.*  
*Dr. C. B.*  
*12/3/18*

Dr. C. B. Salunkhe  
for PRINCIPAL (I/C)  
KRISHNA MAHAVIDYALAYA  
RETHARE (BK.), TAL. KARAD



संहती कार्यसाधिका । शिलं परं भूषणम्  
Shetkari Shikshan Prasarak Mandal's  
**KRISHNA MAHAVIDYALAYA, RETHARE BK.**  
Shivnagar, Tal. Karad, Dist. Satara, 415108 (M.S.)  
Email : kmr\_sspm@yahoo.co.in Website : www.krishnamahavidyalaya.com  
NAAC 'B+' Grade (CGPA 2.65)



Principal : Dr. Salunkhe C. B., M.Sc., Ph.D.

Founder : Hon. Jaywantrao Bhosale

Ref. No. : KMR/

Date :

To,

Prof. & Head

Dept. of Chemistry, S.U. Kolhapur.

**Sub:-** To visit your well known Chemical factory/Institute/  
Museum/.department

Sir,

A group of 37 student's of B.Sc. - III Chemistry and 05 staff are going to visit your well known department.....on Thursday, 15<sup>th</sup> march 2018.

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Yours faithfully,

Dr. C. B. Salunkhe  
PRINCIPAL (I/C)  
KRISHNA MAHAVIDYALAYA  
RETHARE (BK.), TAL. KARAD

The Bsc III Chemistry  
students are visited to  
Dept of Chemistry and  
seen the instruments

IC - 15/3/2018

Professor & Head  
Department of Chemistry  
Kolhapur-416 004





संहती कार्यसाधिका । शिलं परं भूषणम्

Shetkari Shikshan Prasarak Mandal's

**KRISHNA MAHAVIDYALAYA, RETHARE BK.**

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Principal : **Dr. Salunkhe C. B.**, M.Sc., Ph.D.

Founder : **Hon. Jaywantrao Bhosale**



Ref. No. : KMR/Sc/chem/2017-18/सं०१

Date : 15-03-2018

To,

Mr. Sarjerao Yadav  
Founder, Sona group of Industries  
Islampur, Tal. Walwa  
Dist. Sangli

**Sub:-** To visit your well known Chemical factories

Sir,

A group of about 52 students of B.Sc. III Chemistry and 05 staff are going to visit your well known Chemical factories on Thursday 15<sup>th</sup> march 2018

I hope you will look in the matter personally and consider our request positively.

Thanking you.

Bsc III Chemistry Student visited  
on 15/03/2018.

For Sona Chemicals

Authorise Signetury

(Mr. Prakash P. Yadav)

**SONA CHEMICALS**

F/12, M.I.D.C., Islampur,

Tal. Walwa, Dist. Sangli.

Pin 415409, ☎ (02342) 220180

Yours faithfully,

Dr. C. B. Salunkhe  
for PRINCIPAL (I/C)  
KRISHNA MAHAVIDYALAYA  
RETHARE (BK.), TAL. KARAD



संहती कार्यसाधिका । शिलं परं भूषणम्

Shetkari Shikshan Prasarak Mandal's

**KRISHNA MAHAVIDYALAYA, RETHARE BK.**

Shivnagar, Tal. Karad, Dist. Satara, 415108 (M.S.)

Email : kmr\_sspm@yahoo.co.in Website : www.krishnamahavidyalaya.com

NAAC 'B+' Grade (CGPA 2.65)

Principal : **Dr. Salunkhe C. B.**, M.Sc., Ph.D.

Founder : **Hon. Jaywantrao Bhosale**



Ref. No. : KMR/sc/chem/2017-18/समक्ष

Date : 15-03-2018

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Mr. Sarjerao Yadav  
Founder, Sona group of Industries  
Islampur, Tal. Walwa  
Dist. Sangli

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I hope you will look in the matter personally and consider our request positively.


Thanking you.

For Sona Chemicals

Authorised Signatory  
(Mr. Prakash D. Yadav)

**SONA CHEMICALS**  
F/12, M.I.D.C., Islampur,  
Tal. Walwa, Dist. Sangli.  
Ph 415409, ☎ (02342) 220180

Yours faithfully,

  
**Dr. C. B. Salunkhe**  
PRINCIPAL (I/C)  
KRISHNA MAHAVIDYALAYA  
RETHARE (BK.), TAL. KARAD



**Krishna Mahavidyalaya Rethare BK.**  
**Department of Chemistry**  
**Industrial Tour 2017-18**  
**Participants**


<b>Sr. No.</b>	<b>Name</b>
1.	✓ Bavadekar Akshay Uttam
2.	✓ Bele Sanjay Shashikant
3.	* ✓ Bhosale Pooja Vijay
4.	* ✓ Chavan Swaranjali Sanjay
5.	✓ Chavare Shambhuraj Dattatray
6.	* ✓ Dharme Sonam Sanjay
7.	✓ Deshmukh Mayur Rajendra
8.	✓ Gurav Yogesh Narayan
9.	* ✓ Jagtap Shwetali Shankarao
10.	✓ Kanase Suraj Bhanudas
11.	✓ Kanase Vishal Chandrakant
12.	* ✓ Kapurkar Amruta Adhikrao
13.	✓ Karmalkar Mangesh Gajanan
14.	✓ Kashid Ganesh Shivaji
15.	✓ Kumbhar Sankalp Sanjay
16.	✓ Mali Rushikesh Chandrakant
17.	* ✓ Mane Nisha Somnath
18.	✓ Mane Rahul Mahadev
19.	* ✓ Mohite Ravina Dilip
20.	* ✓ Nikam Pradnya Panjabrao
21.	* ✓ Patil Deval Balaso
22.	✓ Patil Omkar Manikrao
23.	✓ Patil Sanket Babaso



24. ✓ \* Pawar Komal Sambhaji
25. ✓ Pawar Vaibhav Mohan
26. ✓ Pawar Vikram Balu
27. ✓ \* Raut Priyanka Sambhajirao
28. ✓ Salunkhe Pramod Prakash
29. ✓ \* Salunkhe Priyanka Jagdish
30. ✓ Saygaon Nilkanth Shrishail
31. ✓ \* Shirsat Ankita Shivaji
32. ✓ Suryawanshi Prafull Ramesh
33. ✓ Sutar Akshay Vikas
34. ✓ Thombare Akash Ashok
35. ✓ Vadkar Suraj Shankar
36. ✓ Yadav Kuldeep Vijay
37. ✓ Pawar N N

### Staff

1. Mr. Chavan Chandrakant Yaswant
- ✓ 2. Miss. Kamble Varsha Lalasaheb
- ✓ 3. Miss. Kamble Shital Mohan
- ✓ 4. Miss. Khot Megha Akaram
- ✓ 5. Mr. Valvake Abhiman Laganya

  
Dr. C. B. Salunkhe  
PRINCIPAL (I/C)  
KRISHNA MAHAVIDYALAYA  
RETHARE (BK.), TAL. KARAD



**Krishna Mahavidyalaya Rethare BK.**  
**Department of Chemistry**  
**Industrial Tour 2017-18**  
**Participants**

Sr. No.	Name	15/03/18 08.00 a.m.	15/03/18 12.00 p.m.
1.	✓ Bavadekar Akshay Uttam	<u>Akshay</u>	<u>Akshay</u>
2.	✓ Bele Sanjay Shashikant	<u>Sanjay Bele</u>	<u>Sanjay</u>
✓ 3.	✓ * Bhosale Pooja Vijay	<u>Pooja</u>	<u>Pooja</u>
4.	✓ * Chavan Swaranjali Sanjay	<u>(Shavan)</u>	<u>(Shavan)</u>
5.	✓ Chavare Shambhuraj Dattatray	<u>Shambhuraj</u>	<u>Shambhuraj</u>
✓ 6.	* Dharmse Sonam Sanjay	<u>Sonam</u>	<u>Sonam</u>
7.	✓ Deshmukh Mayur Rajendra	<u>Mayur</u>	<u>Mayur</u>
8.	✓ Gurav Yogesh Narayan	<u>Yogesh</u>	<u>Yogesh</u>
9.	✓ * Jagtap Shwetal Shankarao	<u>Shwetal</u>	<u>Shwetal</u>
10.	✓ Kanase Suraj Bhanudas	<u>Suraj</u>	<u>Suraj</u>
11.	✓ Kanase Vishal Chandrakant	<u>Vishal</u>	<u>Vishal</u>
✓ 12.	✓ * Kapurkar Amruta Adhikrao	<u>Amruta</u>	<u>Amruta</u>
13.	✓ Karmalkar Mangesh Gajanan	<u>Mangesh</u>	<u>Mangesh</u>
14.	✓ Kashid Ganesh Shivaji	<u>Ganesh</u>	<u>Ganesh</u>
15.	✓ Kumbhar Sankalp Sanjay	<u>Sankalp</u>	<u>Sankalp</u>
16.	✓ Mali Rushikesh Chandrakant	<u>Rushikesh</u>	<u>Rushikesh</u>
✓ 17.	✓ * Mane Nisha Somnath	<u>Nisha</u>	<u>Nisha</u>
18.	✓ Mane Rahul Mahadev	<u>Rahul</u>	<u>Rahul</u>
19.	✓ * Mohite Ravina Dilip	<u>Ravina</u>	<u>Ravina</u>
✓ 20.	✓ * Nikam Pradnya Panjabrao	<u>Pradnya</u>	<u>Pradnya</u>
21.	✓ * Patil Deval Balaso	<u>Deval</u>	<u>Deval</u>
22.	✓ Patil Omkar Manikrao	<u>Omkar</u>	<u>Omkar</u>
23.	✓ Patil Sanket Babaso	<u>Sanket</u>	<u>Sanket</u>



24.	✓* Pawar Komal Sambhaji	<i>Pawar</i>	<i>Pawar</i>
25.	✓ Pawar Vaibhav Mohan	<i>Pawar</i>	<i>Pawar</i>
26.	✓ Pawar Vikram Balu	<i>Pawar</i>	<i>Pawar</i>
27.	✓* Raut Priyanka Sambhajirao	<i>Raut</i>	<i>Raut</i>
28.	✓ Salunkhe Pramod Prakash	<i>Salunkhe</i>	<i>Salunkhe</i>
29.	✓* Salunkhe Priyanka Jagdish	<i>Salunkhe</i>	<i>Salunkhe</i>
30.	✓ Saygaon Nilkanth Shrishail	<i>Saygaon</i>	<i>Saygaon</i>
31.	✓* Shirsat Ankita Shivaji	<i>Shirsat</i>	<i>Shirsat</i>
32.	✓ Suryawanshi Prafull Ramesh	<i>Suryawanshi</i>	<i>Suryawanshi</i>
33.	✓ Sutar Akshay Vikas	<i>Sutar</i>	<i>Sutar</i>
34.	✓ Thombare Akash Ashok	<i>Thombare</i>	<i>Thombare</i>
35.	✓ Vadkar Suraj Shankar	<i>Vadkar</i>	<i>Vadkar</i>
36.	✓ Yadav Kuldeep Vijay	<i>Yadav</i>	<i>Yadav</i>
37)	✓ Pawar Nishigandha Nivas	<i>Pawar</i>	<i>Pawar</i>

### Staff

- 1 . Mr. Chavan Chandrakant Yaswant
- 2 . Miss. Kamble Varsha Lalasaheb
- 3 . Miss. Kamble Shital Mohan
- 4 . Miss. Khot Megha Akaram
- 5 . Mr. Valvake Abhiman Laganya

*Dr. C. B. Salunkhe*  
Dr. C. B. Salunkhe  
PRINCIPAL (I/C)  
KRISHNA MAHAVIDYALAYA  
RETHARE (BK.), TAL. KARAD



**Krishna Mahavidyalaya Rethare BK.**  
**Department of Chemistry**  
**Industrial Tour 2017-18**  
**Participants**


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24. ✓ \* Pawar Komal Sambhaji ✓
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26. ✓ Pawar Vikram Balu ✓
27. ✓ \* Raut Priyanka Sambhajirao ✓
28. ✓ Salunkhe Pramod Prakash ✓
29. ✓ \* Salunkhe Priyanka Jagdish ✓
30. ✓ Saygaon Nilkanth Shrishail ✓
31. ✓ \* Shirsat Ankita Shivaji ✓
32. ✓ Suryawanshi Prafull Ramesh. ✓
33. ✓ Sutar Akshay Vikas ✓
34. ✓ Thombare Akash Ashok ✓
35. ✓ Vadkar Suraj Shankar ✓
36. ✓ Yadav Kuldeep Vijay ✓
37. ✓ Pawar Nishigandha Nivas ✓

### Staff

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- 2 . Miss. Kamble Varsha Lalasaheb ✓
- 3 . Miss. Kamble Shital Mohan ✓
- 4 . Miss. Khot Megha Akaram ✓
- 5 . Mr. Valvake Abhiman Laganya ✓

  
Dr. C. B. Salunkhe  
PRINCIPAL (I/C)  
KRISHNA MAHAVIDYALAYA  
RETHARE (BK.), TAL. KARAD



INDUSTRIAL VISIT 2017-18



Krishna Mahavidyalaya, Rethare Bk

## IQAC 2017-2018

## ACTIVITY REPORT

Chemistry DEPARTMENT

IQAC ACTIVITY No:

NAME OF THE ACTIVITY:- Seminar			
DATE	FACULTY	DEPARTMENT/COMMITTEE	COORDINATOR NAME
05/02/2018 To 12/02/2018	Science	Chemistry	Miss. V. L. Kamble
TIME	VENUE	NUMBER OF PARTICIPANTS	NATURE: Outdoor/Indoor
01:00 pm To 02:00 pm	KMR	38	Indoor
SUPPORT/ASSISTANCE:			

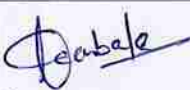


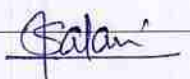
BRIEF INFORMATION ABOUT THE ACTIVITY (CRITERION NO. -):

TOPIC/SUBJECT OF THE ACTIVITY	Seminar
OBJECTIVES	Gaining a better insight in to the subject and to develop presentation skill.
METHODOLOGY	Lecture
OUTCOMES	Students gain a clearer understanding of the selected topic.

PROOFS &amp; DOCUMENTS ATTACHED (Tick mark the proofs attached):

1. Notice & Letters	2. Student list of	3. Activity report	4. Photos	5. Feedback form
6. Feedback analysis	7. News clip with details	8. Certificate	9. Any other	10.

IQAC CELL ACTIVITY NUMBER: 

NAME OF TEACHER & SIGNATURE	NAME OF HEAD/ COMMITTEE INCHARGE & SIGNATURE	VICE PRINCIPALS SIGNATURE	IQAC COORDINATOR (SEAL & SIGNATURE)
 (Miss. V.L. Kamble)	 (Mr. C.Y. Chavan) <b>HEAD</b> The Department of Chemistry KRISHNA MAHAVIDYALAYA SHIVNAGAR - RETHARE Bk	 Principal	 IQAC, Coordinator, KRISHNA MAHAVIDYALAYA, Rethare Bk; Shivnagar - 415108 Tal. Karad, Dist. Satara

# Krishna Mahavidyalaya, Rethare bk.II

Department of Chemistry

Seminar Record of B. Sc. III

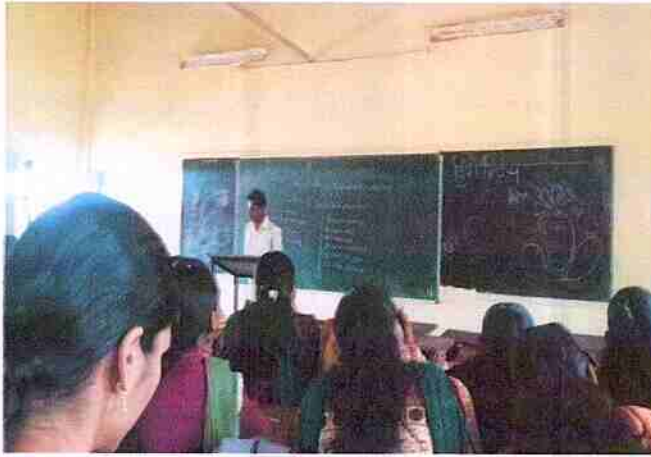
(Year 2017-18)

Time – 01:00 pm To 02:00 pm.

Sr. No.	Name of student	Seminnar Topic	Date
1	Gurav Y. N.	Types of chromatography.	05/02/2018
2	Kanase S. B.	Acid-base indicator.	05/02/2018
3	Pawar V. M.	Advantages of chromatography.	05/02/2018
4	Yadav K. V.	Gibbs Helmholtz equation.	05/02/2018
5	Mandake R. R.	Metallochromic indicator.	06/02/2018
6	Dharme S. S.	Colorimetry and spectrophotometry.	06/02/2018
7	*Ingavale B. S.	Titrimetric analysis.	07/02/2018
8	Mane R. M.	Phase Equilibrium.	07/02/2018
9	*Patil S. J.	Chromatography.	07/02/2018
10	Patil S. S.	Natural product.	07/02/2018
11	*Pawar D. J.	Quinhydrone electrode.	07/02/2018
12	*Damame A. S.	Uses of quinhydrone electrode.	08/02/2018
13	*Pawar K. S.	Analytical evidences of citral.	08/02/2018
14	*Hinukale R. S.	Glass electrode.	08/02/2018
15	Shingade M. S.	Haemoglobin and Myoglobin.	08/02/2018
16	*Chavan S. S.	Chromatography.	08/02/2018
17	*Godase A. J.	Adsorption isotherm.	08/02/2018
18	*Kanase M. S.	Precipitation titration.	08/02/2018
19	*Kapurkar A. A.	Acid –base titration.	08/02/2018
20	*Kumbhar A. A.	Chromatography.	08/02/2018
21	*Mane N. S.	Nuclear chemistry.	08/02/2018
22	*Mohite R. D.	Theories of trans effect.	08/02/2018
23	Kumbhar S. S.	Types of EDTA titration.	08/02/2018
24	*Pawar T. B.	Chromatography.	08/02/2018
25	*Jadhav S. S.	Laws of crystallography.	08/02/2018
26	Shirsat A. S.	Aplication of Adsorption.	09/02/2018
27	*Jagtap S. S.	Types of EDTA titration.	09/02/2018
28	*Raut P. S.	Glass electrode.	09/02/2018
29	Salunkhe P. P.	Paper chromatography.	09/02/2018
30	*Salunkhe P. J.	Nuclear chemistry.	09/02/2018
31	Vadakar S. S.	Colorimetry and spectrophotometry.	09/02/2018
32	*Pawar N. S.	Name reaction	09/02/2018
33	Thombare A. A.	Redox titration.	09/02/2018
34	Bavdekar A. U.	Types of steel.	10/02/2018
35	Kashid G. S.	Flame Photometry.	10/02/2018
36	*Patil D. B.	Bioinorganic chemistry.	10/02/2018
37	Sayagaon N. S.	Uses of glass electrode.	12/02/2018
38	Sutar A. V.	Classification of chromatography.	12/02/2018

# Seminar Activity

2017-18



Patil Deval Balaso

Shetkari Shikshan Prasarak Mandal, Rethare Bk.



**KRISHNA MAHAVIDYALAYA, RETHARE BK.**

SHIVNAGAR, Tal. Karad, Dist. Satara.

Examination : Terminal / Preliminary / Annual / Test Seminae

Seat No. [In figures]

0 3 0 5 3

Date: 10/12/2019

Seat No. [In words]

Three zero five Three

Subject

Chemistry

Paper

(Inorganic chemistry) XIV

Time

Invigilator's Signature

**SUPPLEMENT**

--: Start Writing From Here :-

Topic - Bio-inorganic chemistry

Biological Role of Alkali and Alkaline Earth metal ion:

a) Role of  $\text{Na}^+$ ,  $\text{K}^+$  & in biological processes—

As  $\text{Na}^+$ ,  $\text{K}^+$  and chloride ions have intimate relations, their biochemistry is discussed together.

Source:- 1) Generally, food materials derived from plants low content of sodium. Therefore to fulfil the adequate requirement of sodium in biological processes common salt ( $\text{NaCl}$ ) is used in cooking. Thus, it is the main source of sodium.

2) potassium is present in almost all foods derived from plants & animals.

e.g. Tea, coffee, cocoa, vegetables.

Adsorption & distribution:- Sodium & potassium ions are absorbed almost completely from gastrointestinal tract. Less than 10% of the potassium and 2% of the sodium is extracted in the faeces.

Sodium & potassium are distributed in plants as well.

Both of them play effective role in secretion of digestive fluids.

eg. 1) Gastric HCl is derived from NaCl in blood.

Seminat

Pawar Vaibhav Mohan.



Shetkari Shikshan Prasarak Mandal, Rethare Bk.

**KRISHNA MAHAVIDYALAYA, RETHARE BK.**

SHIVNAGAR, Tal. Karad, Dist. Satara.

Examination : Terminal / Preliminary / Annual / Test

Seat No. [In figures]

3 0 6 2

Seat No. [In words]

Three thousand sixty two.

Date : 05/02/2018

Subject

Chemistry

Paper

XVI (Analytical chemistry)

Time

Invigilator's Signature

SUPPLEMENT

∴ Start Writing From Here ∴

4) Advantages of chromatography -!

Compared to conventional separation methods chromatography enjoys main advantages are as under,

① Components which are chemically similar & physically closely resembling can be separated.

② Separation occurs due to in the difference in physical property & at room temp or even below that. So, biological mixt. can be separated.

③ The methods are sensitive, so micro & picograms of mixt. can be separated & detected.

④ These methods are simple, rapid & very elegant. So complex mixt. can be separated routinely.

⑤ Most of the time the equipment required is simple & inexpensive.

Some chromatography techniques are capable of giving absolute purification of affinity chromatography.

Some chromatography techniques unlike other purification do not

ely on differences in physical properties. But make use of specific biological interaction. e.g. affinity chromatography.

## B) Type of chromatography:-

The separation of the components in chromatography involves some kind of differential interaction bet<sup>n</sup> solute with stationary phase. Depending on the nature of force operating bet<sup>n</sup> them the separation mechanism is based. It may be due to differential affinity, solubility or partition or molecular size, shape or charge, charge mass ratio or a combination of these etc. Accordingly we have different types of chromatography.

① Adsorption chromatography:- A separation is due to a differential affinity for stationary phase compared to the mobile phase. This mechanism works when stationary phase is a solid & mobile phase is liquid.

② Partition chromatography:- The separation occurs due to a relative differences in the dissolution & partition bet<sup>n</sup> different phases/layers. Here stationary phase is a liquid supported on some support & mobile phase is either liquid or gas. The liquid on stationary phase exists as a thin layer on a solid background.

③ Ion exchange chromatography:- The separation of the components is achieved by exchange of ions. The stationary pha. has replaceable ions of definite charge. When sample molecules having like charge passes through it they get exchanged & stuck to the stationary phase. These bound molecules are recovered by letting another like phase having charge similar to stationary phase.  
(this is called eluting the column).



④ Size exclusion chromatography -! The molecules differing in their size when made to pass through a porous stationary phase they move with different speed. The smaller molecules penetrate the pore & get stuck temporary. The bigger size molecules that fail to penetrate the molecular movement, short path & pass out the column quickly. To assist the molecular movement the mobile path is due to be continuously passed through the stationary phase. This is also called as molecular sieving.

⑤ Affinity chromatography -! The components of mixt. are separated by exploiting extremely specific biological interaction to give absolute purification. The stationary phase is an insoluble solid matrix that carries a selected covalently bound ligand capable of binding reversibly to a specific component. When the mobile phase moves over the stationary phase the ligand picks up & holds back the uniquely compatible component & the rest are left to move forward. It is recovered by eluting the column with a chosen mobile phase. The component thus separated is absolutely pure.