

**Vivekanand College, Kolhapur (Empowered Autonomous)**

**Department of Chemistry**

**Internal Examination 2023-24**

All M.Sc.II (Analytical Chemistry) students are informed that their internal examination For Sem-IV will take place as per the timetable. **Date: 12/04/2024 to 16/04/2024**

**M.Sc. II Sem IV: Analytical Chemistry**

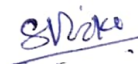
Sr No	Subject/Paper	Day, Date, and Time	Topics
1	Modern Separation Method in Analysis	Friday 12/04/2024, 12.00-1.00 pm	1. Advanced Liquid chromatography. 2. Ion chromatography.
2	Organoindustrial Analysis	Saturday, 13/04/2024, 12.00-1.00 pm	1. Food Analysis. 2. Analysis of creams and lotions
3	Advanced Methods in Chemical Analysis	Monday 15/04/2024, 12.00-1.00 pm	1. Kinetic Methods of Analysis. 2. X-Ray Spectroscopy.
4	Industrial Analytical Chemistry	Tuesday 16/04/2024, 12.00 to 1.00 pm	1. Spectrochemical methods of Analysis. 2. Analysis of Soil and Fertilizers.

  
Teacher In charge

Ms. V. S. Rajmane

  
Coordinator

Dr. A. S. Kumbhar  
**CO-ORDINATOR**  
M.Sc.(ORGANIC & INORGANIC CHEMISTRY)  
VIVEKANAND COLLEGE, KOLHAPUR  
(EMPOWERED AUTONOMOUS)

  
Head

Dr. S. D. Shirke  
**HEAD**  
DEPARTMENT OF CHEMISTRY  
VIVEKANAND COLLEGE, KOLHAPUR  
(EMPOWERED AUTONOMOUS)



Seat  
No.

VIVEKANAND COLLEGE, KOLHAPUR  
(EMPOWERED AUTONOMOUS)  
M.Sc. (Part-II) (Semester-IV) (CBCS) Internal Examination  
ANALYTICAL CHEMISTRY

Paper No XIV: Organo Industrial Analysis

Day and Date: Saturday 13/04/2024

Total Marks: 20

Time: 12.00 - 1.00 pm

*Instructions:*

1) Attempt all questions.

Q1. Answer the following questions (Any Two)

[10]

- 1) Explain any Three methods of Quantitative Analysis of jam and jelly.
- 2) Explain the Quantitative Determination of fat content, SNF and true protein in Milk
- 3) Define the term 'Cosmetics'. Explain adulteration of cosmetic ingredients with examples in detail.
- 4) What is difference between creams & lotions? Describe 'In Vitro method' for evolution of creams in brief.

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M.Sc. (Part-II) (Semester-IV) (CBCS) Internal Examination  
ANALYTICAL CHEMISTRY

Paper No XIII: Modern Separation Method in Analysis

Day and Date: Friday 12/04/2024

Total Marks: 20

Time: 12.00 - 1.00 pm

Instructions:

1) Attempt all questions.

Q1. Answer the following questions (Any Two)

[10]

- 1) Explain in Details High Performance Liquid chromatography, Instrumentation And Application of HPLC.
- 2) Write Note on in Details Super critical fluid chromatography (SCFC).
- 3) What is mean by Ion chromatography? Explain Instrumentation of Ion chromatography and Applications of Ion chromatography.
- 4) Explain Principle of Ion chromatography and Commercial Scope of Ion chromatography.

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VIVEKANAND COLLEGE, KOLHAPUR  
(EMPOWERED AUTONOMOUS)

M.Sc. (Part-II) (Semester-IV) (CBCS) Internal Examination  
ANALYTICAL CHEMISTRY

Paper No XV: Advanced Method In Chemical Analysis.

Day and Date: Monday 15/04/2024

Total Marks: 20

Time: 12.00 - 1.00 pm

Instructions:

1) Attempt all questions.

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Q1. Answer the following questions (Any Two)

[10]

- 1) Explain in details the initial rate method.
- 2) Describe in brief Michaelis Menten enzyme catalysed reaction.
- 3) Explain Principle of X-Ray Spectroscopy and Instrumentation of X-Ray Spectroscopy in details.
- 4) Explain Principle of X-Ray Absorption Spectroscopy and Instrumentation of X-Ray Absorption Spectroscopy.

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VIVEKANAND COLLEGE, KOLHAPUR  
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M.Sc. (Part-II) (Semester-IV) (CBCS) Internal Examination  
ANALYTICAL CHEMISTRY  
Paper No XVI: Industrial Analytical Chemistry  
Day and Date: Tuesday 16/04/2024

Total Marks: 20

Time: 12.00 - 1.00 pm

*Instructions:*

1) *Attempt all questions.*

Q1. Answer the following questions (Any Two)

[10]

- 1) Describe the Instrumentation required for Fluorescence analysis. What is primary filter and a secondary filter?
- 2) Describe the oprutim of an interferometer what ore its advantages.
- 3) What is fertilizer? Discuss in short classification and explain the necessity and required of good fertilizer.
- 4) How will you determine organic carbon from soil?

Vivekanand College, Kolhapur (Empowered Autonomous)

Department of Chemistry

M. Sc. II Sem IV (Analytical Chemistry)

Internal Examination 2023-24

Attendance Sheet

Time 12.00 to 1.00 pm

Sr.No	Name of student	Signature			
		Paper no. XIII 12/04/2024	Paper no. XIV 13/04/2024	Paper no. XV 15/04/2024	Paper no. XVI 16/04/2024
1.	Tejas Ashok Adsale.	<i>Tejas</i>	<i>Tejas</i>	<i>Tejas</i>	<i>Tejas</i>
2.	Gate Dnyandev Ramdas	<i>Dny.</i>	<i>Dny.</i>	<i>Dny.</i>	<i>Dny.</i>
3.	Belkadi's Gnanika Kishorima	<i>Belkadi's</i>	<i>Belkadi's</i>	<i>Belkadi's</i>	<i>Belkadi's</i>
4.	Ashwarya Khimona Jadhav	<i>Ashwarya</i>	<i>Ashwarya</i>	<i>Ashwarya</i>	<i>Ashwarya</i>
5.	Prachi Sandeep Jaalhar-Kashbeker	<i>Prachi</i>	<i>Prachi</i>	<i>Prachi</i>	<i>Prachi</i>
6.	Nandini Nandkumar Karale	<i>Nandini</i>	<i>Nandini</i>	<i>Nandini</i>	<i>Nandini</i>
7.	Akhijest teraba lad.	<i>Akhijest</i>	<i>Akhijest</i>	<i>Akhijest</i>	<i>Akhijest</i>
8.	Mung Sunil prakash	<i>Mung</i>	<i>Mung</i>	<i>Mung</i>	<i>Mung</i>
9.	Anuja Rungroo Pahl	<i>Anuja</i>	<i>Anuja</i>	<i>Anuja</i>	<i>Anuja</i>
10.	manali Bhagat Pahl	<i>Manali</i>	<i>Manali</i>	<i>Manali</i>	<i>Manali</i>
11.	Prashant Basavani Pahl	<i>Prashant</i>	<i>Prashant</i>	<i>Prashant</i>	<i>Prashant</i>
12.	Rutuja Dattatray Pahl	<i>Rutuja</i>	<i>Rutuja</i>	<i>Rutuja</i>	<i>Rutuja</i>
13.	utkaesha anandati Pahl	<i>utkaesha</i>	<i>utkaesha</i>	<i>utkaesha</i>	<i>utkaesha</i>
14.	Snehal Kundan Ranage	<i>Snehal</i>	<i>Snehal</i>	<i>Snehal</i>	<i>Snehal</i>
15.	Shreya Gopal Sawant	<i>Shreya</i>	<i>Shreya</i>	<i>Shreya</i>	<i>Shreya</i>
16.	Saaghat Dadasa Sutar	<i>Saaghat</i>	<i>Saaghat</i>	<i>Saaghat</i>	<i>Saaghat</i>

17.	Akanhsha Vijay Talhar	<del>Stalkar</del>	<del>Stalkar</del>	<del>Stalkar</del>	<del>Stalkar</del>
18.	Pratiksha Vijay Talkat.	<del>Stalkar</del>	<del>Stalkar</del>	<del>Stalkar</del>	<del>Stalkar</del>
19.	Tushar Tanaji Lad	<del>Stalkar</del>	<del>Stalkar</del>	<del>Stalkar</del>	<del>Stalkar</del>
20.	Chaitali Shital Pottankude	<del>Stalkar</del>	<del>Stalkar</del>	<del>Stalkar</del>	<del>Stalkar</del>
21.	Mundhe Sarnad Shiray	<del>Stalkar</del>	<del>Stalkar</del>	<del>Stalkar</del>	<del>Stalkar</del>
22.	<del>Amita Ramprasad Patil</del>	<del>Stalkar</del>	<del>Stalkar</del>	<del>Stalkar</del>	<del>Stalkar</del>
23.	Paeth Lalaji Karkure	<del>Stalkar</del>	<del>Stalkar</del>	<del>Stalkar</del>	<del>Stalkar</del>
24.					
25.					



Head of Department

(Department of Chemistry)