



"ज्ञान, विज्ञान आणि सुसंस्कार यांसाठी शिक्षण प्रसार"

- शिक्षणमहर्षी प. पू. डॉ. बापुजी साळुंखे

Shri Swami Vivekanand Shikshan Sanstha's

**Vivekanand College, Kolhapur**

(Empowered Autonomous)

**Department of Chemistry**

**Internal Examination Notice-Oct 2023**



All the students of B.Sc. (chemistry)- I, II and III are hereby informed that, term-I internal examination will be conducted in the regular classrooms as per following time-table.

Class	Day & Date	Time	Paper Code & Name	Unit Name
B.Sc.I Chemistry (Open Elective)	Wednesday, 18 <sup>th</sup> Oct 2023	12:20 pm to 1:10 pm	OEC03CHE11 Fundamentals of Inorganic Chemistry	Corrosion & its Control
	Thursday, 19 <sup>th</sup> Oct 2023	12:20 pm to 1:10 pm	OEC03CHE12 Fundamentals of Organic Chemistry	Green Chemistry
B.Sc.I (Major/Minor)	Wednesday, 18 <sup>th</sup> Oct 2023	12:20 pm to 1:10 pm	DSC03CHE11 Inorganic Chemistry	Atomic Structure and Periodicity of Elements
	Thursday, 19 <sup>th</sup> Oct 2023	12:20 pm to 1:10 pm	DSC03CHE12 Organic Chemistry	Fundamentals of Organic Chemistry
B.Sc.II (Chemistry)	Friday, 20 <sup>th</sup> Oct 2023	2:10 pm to 3:00 pm	DSC-1002C1: Physical Chemistry	Phase Equilibria
	Saturday, 21 <sup>st</sup> Oct 2021	3:00 pm to 3:50 pm	DSC-1002C2: Analytical Chemistry	Unit Operation
B.Sc.III (Chemistry)	Friday, 20 <sup>th</sup> Oct 2023	11:30 am to 12:30 pm	DSE-100E1: Physical Chemistry	Photochemistry
	Saturday, 21 <sup>st</sup> Oct 2021	1:00 pm to 2:00 pm	DSE-100E1: Inorganic Chemistry	Organometallic Compounds & Catalysis
	Friday, 20 <sup>th</sup> Oct 2023	11:30 am to 12:30 pm	DSE-100E2: Organic Chemistry	IR Spectroscopy
	Saturday, 21 <sup>st</sup> Oct 2021	1:00 pm to 2:00 pm	DSE-100E2: Analytical Chemistry	Potentiometric Titrations

- Nature of Internal QP: B.Sc.I Chemistry (OE/Major/Minor): Short Answer Question-05M (Any 2 out of 3)
- Nature of Internal QP: B.Sc.II & III Chemistry: Long answer question-10M (Any 1 out of 2), Short Answer Question-05M (Any 1 out of 2)

*S.D. Shirke*

Dr. Mrs. S. D. Shirke  
Head

Dept. of Chemistry

Vivekanand College, Kolhapur (Empowered Autonomous)

Page 1

*S.D. Shirke*

**HEAD**

**DEPARTMENT OF CHEMISTRY  
VIVEKANAND COLLEGE, KOLHAPUR  
(EMPOWERED AUTONOMOUS)**



Swami Vivekanand Shikshan Sanstha's, Kolhapur

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

Department of Chemistry

B.Sc.-III, Sem-V, Internal Examination 2023 – 24

Paper Code – DSC-1002E1: Physical Chemistry

Day & Date: Friday, 20/10/2023

Time: 11.30 p.m.-12.30 pm

Total Marks- 15

**Q.1 Answer the following questions [any one].**

10

1] State and explain the laws of photochemistry

2] Discuss in detail "Jablonski diagram".

**Q.2 Give short notes on [any one].**

05

1] What is quantum yield? Give the factors affecting the quantum yield.

2] Photosensitized reactions



*S. D. Dike*

**HEAD**  
DEPARTMENT OF CHEMISTRY  
VIVEKANAND COLLEGE, KOLHAPUR  
(EMPOWERED AUTONOMOUS)

20/10/2023

Vivekanand College, Kolhapur (Autonomous)

- Internal Exam - 2023-2024

Date & Time-

B. Sc. III Chemistry Roll -Call 2023-24

- Physical Chemistry

Fri day.

Name of the Teacher :-

Sr. No	Roll No	Sign	Sign	Sign	Sign	Roll No	Sign	Sign	Sign	Sign
1	8206					8249	<del>Nam</del>			
2	8207	<del>Shrikant</del>				8250	<del>Arjun</del>			
3	8208	<del>Aravind</del>				8251	<del>Aravind</del>			
4	8209	<del>Vijay</del>				8252	<del>Aravind</del>			
5	8210	<del>Sychoth</del>				8253	A			
6	8211	P. J. Chougale				8254	<del>Aravind</del>			
7	8212	<del>Aravind</del>				8255	<del>Aravind</del>			
8	8213	<del>Satish</del>				8256	<del>Aravind</del>			
9	8214	<del>Ravi</del>				8257	<del>Aravind</del>			
10	8215	<del>Aravind</del>				8258	<del>Aravind</del>			
11	8216	<del>Aravind</del>				8259	<del>Aravind</del>			
12	8217	<del>Aravind</del>				8260	<del>Aravind</del>			
13	8218	<del>Aravind</del>				8261	<del>Aravind</del>			
14	8219	<del>Aravind</del>				8262	<del>Aravind</del>			
15	8220	<del>Aravind</del>				8263	<del>Aravind</del>			
16	8221	<del>Aravind</del>				8264	<del>Aravind</del>			
17	8222	<del>Aravind</del>				8265	<del>Aravind</del>			
18	8223	<del>Aravind</del>				8266	<del>Aravind</del>			
19	8224	<del>Aravind</del>				8267	<del>Aravind</del>			
20	8225	<del>Aravind</del>				8268	<del>Aravind</del>			
21	8226	<del>Aravind</del>				8269	<del>Aravind</del>			
22	8227	<del>Aravind</del>				8270	A			
23	8228	<del>Aravind</del>				8271	<del>Aravind</del>			
24	8229	<del>Aravind</del>				8272	<del>Aravind</del>			
25	8230	<del>Aravind</del>					<del>Aravind</del>			
26	8231	<del>Aravind</del>					<del>Aravind</del>			
27	8232	<del>Aravind</del>					<del>Aravind</del>			
28	8233	<del>Aravind</del>					<del>Aravind</del>			
29	8234	<del>Aravind</del>				8292	<del>Aravind</del>			
30	8235	<del>Aravind</del>					<del>Aravind</del>			
31	8236	<del>Aravind</del>				8292	<del>Aravind</del>			
32	8237	<del>Aravind</del>					<del>Aravind</del>			
33	8238	<del>Aravind</del>					<del>Aravind</del>			
34	8239	<del>Aravind</del>					<del>Aravind</del>			
35	8240	<del>Aravind</del>					<del>Aravind</del>			
36	8241	<del>Aravind</del>					<del>Aravind</del>			
37	8242	<del>Aravind</del>					<del>Aravind</del>			
38	8243	<del>Aravind</del>					<del>Aravind</del>			
39	8244	<del>Aravind</del>					<del>Aravind</del>			
40	8245	<del>Aravind</del>					<del>Aravind</del>			
41	8246	<del>Aravind</del>					<del>Aravind</del>			
42	8247	<del>Aravind</del>					<del>Aravind</del>			
43	8248	<del>Aravind</del>					<del>Aravind</del>			

← Smita Rajendra Gure  
Sourabh Amar Ekshing  
sayyam Deshbanshan karake  
Ujma Jmti Yaj. Paragie



**HEAD**  
DEPARTMENT OF CHEMISTRY  
VIVEKANAND COLLEGE, KOLHAPUR  
(EMPOWERED AUTONOMOUS)

Seat No.	
----------	--

Ques. paper code	
------------------	--

**VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)**  
**B.Sc. Part- III (Inorganic Chemistry) (Sem-V) Internal Examination: Oct-**  
**2023**  
**Course Code: DSE- 100E1**

Day: Friday

Time: 1:00 pm

Date: 20/10/2023

Marks : 15 Marks

**Instructions:**

- 1) All the questions are compulsory.
- 2) Figures to the right indicate full marks.
- 3) Draw neat labelled diagrams wherever necessary.

<b>Q.1.</b>		<b>Attempt any ONE</b>	<b>[10]</b>
	i)	What are Metal carbonyls? Explain the Bonding and Properties of $[\text{Fe}(\text{CO})_5]$ & $[\text{Cr}(\text{CO})_6]$	
	ii)	Explain the synthesis & discuss the structure of Ferrocene with properties.	
<b>Q.2.</b>		<b>Attempt any ONE</b>	<b>[05]</b>
	i)	Discuss the synthesis and structure of Organometallic compound of beryllium.	
	ii)	What is EAN rule? Calculate EAN in the following complexes: a) $\text{Fe}(\text{CO})_5$ b) $\text{Cr}(\text{CO})_6$	

\*\*\*\*\*

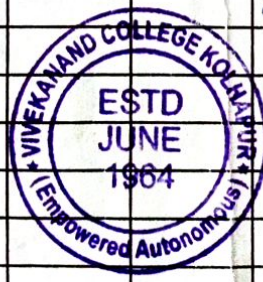


*S. D. K.*  
**HEAD**  
**DEPARTMENT OF CHEMISTRY**  
**VIVEKANAND COLLEGE, KOLHAPUR**  
**(EMPOWERED AUTONOMOUS)**

B. Sc. III Chemistry Roll Call 2023-24

Name of the Teacher :-

Roll	Sign	Roll	Sign
8206		8246	<del>Amrode</del>
8207	<del>Shyke</del>	8247	<del>(S)ole</del>
8208	<del>Aharon</del>	8248	<del>AMAB</del>
8209	<del>Vachan</del>	8249	<del>Nm</del>
8210	<del>Syhad</del>	8250	<del>Amuste</del>
8211	P. J. C	8251	-
8212	<del>Dugale</del>	8252	<del>Prabhat</del>
8213	<del>Vasanti</del>	8253	
8214	<del>Recande</del>	8254	<del>Patil</del>
8215	<del>Runde</del>	8255	<del>Patil</del>
8216	<del>Patil</del>	8256	<del>Patil</del>
8217	<del>Falke</del>	8257	<del>Sabharwal</del>
8218	<del>Trambur</del>	8258	<del>Patil</del>
8219	<del>Wale</del>	8259	<del>Patil</del>
8220	<del>Patil</del>	8260	<del>Patil</del>
8221	<del>Shastri</del>	8261	<del>Vijage</del>
8222	<del>Patil</del>	8262	<del>Fangadi</del>
8223	<del>Patil</del>	8263	<del>Patil</del>
8224	<del>Patil</del>	8264	<del>Sweeti</del>
8225	<del>Bambale</del>	8265	<del>Patil</del>
8226	<del>Patil</del>	8266	<del>Madan</del>
8227	<del>Patil</del>	8267	<del>Patil</del>
8228	<del>Patil</del>	8268	<del>Patil</del>
8229	<del>Patil</del>	8269	<del>Patil</del>
8230	<del>Patil</del>	8270	
8231	<del>Patil</del>	8271	<del>Patil</del>
8232	<del>Patil</del>	8272	<del>Patil</del> ← Smruti Rajendra Gurun
8233	<del>Patil</del>	<del>Patil</del>	Sourabh Amar Ekshinge
8234	<del>Patil</del>	<del>Patil</del>	Sayam Deshbhushan Karake
8235	<del>Patil</del>		
8236	<del>Patil</del>	8292	<del>Patil</del> Uttaraksh Shivaji Patil sem I
8237	<del>Patil</del>		
8238	<del>Patil</del>	8293	<del>Patil</del> Uttaraksh Shivaji Patil sem II
8239	<del>Patil</del>		
8240	<del>Patil</del>		
8241	<del>Patil</del>		
8242	<del>Patil</del>		
8243	<del>Patil</del>		
8244	<del>Patil</del>		
8245	<del>Patil</del>		



HEAD  
DEPARTMENT OF CHEMISTRY  
VIVEKANAND COLLEGE, KOLHAPUR  
(EMPOWERED AUTONOMOUS)

Seat No.	
----------	--

**VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)**  
**B.Sc. (Part-III) (Semester-V) (CBCS) Examination**  
**CHEMISTRY**  
**Organic Chemistry**

**Day and Date: Thursday 21/10/2023**

**Total Marks: 15**

**Time: 11.30 - 12.30 pm**

**Instructions:**

- 1) *Attempt all questions.*
- .....

**Q1. Answer the following questions (Anyone)**

**[10]**

- a) Explain, factors affecting on IR absorption frequency of organic molecules.
- b) Describe, the fundamental mode of vibrations in IR Spectroscopy.

**Q2. Write a note on the following (Anyone)**

**[5]**

- a) Hooks law
- b) Range of IR radiations
- 



  
**HEAD**  
**DEPARTMENT OF CHEMISTRY**  
**VIVEKANAND COLLEGE, KOLHAPUR**  
**(EMPOWERED AUTONOMOUS)**

B. Sc. III Chemistry Roll Call 2023-24

Name of the Teacher :-

Roll	Sign	Roll	Sign
8206		8246	V. More
8207	Bhokare	8247	Bhokare
8208	Anwar	8248	AMRAB
8209	Wahab	8249	Nana
8210	S. Chokre	8250	A. M. B. D.
8211	P. J. C.	8251	-
8212	Gadale	8252	Prasad
8213	Katkar	8253	Katkar
8214	Rez. N. D.	8254	Katkar
8215	Amali	8255	Katkar
8216	Shankar	8256	Katkar
8217	Satavde	8257	Shankar
8218	Prasad	8258	S
8219	Ajase	8259	
8220	Amal	8260	Prasad
8221	Shankar	8261	Shankar
8222	Jadhav	8262	Sanadi
8223	Barkar	8263	Shankar
8224	Patil	8264	Gauti
8225	Bombale	8265	Sanadi
8226	Barkar	8266	Mamane
8227	Katkar	8267	Prasad
8228	Barkar	8268	Prasad
8229	Katkar	8269	Prasad
8230	Barkar	8270	
8231	Misra	8271	Prasad
8232	Amali	8272	Prasad
8233	P. R. Patil		Barkar
8234	Prasad		Prasad
8235	Prasad		Prasad
8236	Prasad		Prasad
8237	Prasad		Prasad
8238	Prasad		Prasad
8239	Barkar		Prasad
8240	Prasad		Prasad
8241	Prasad		Prasad
8242	Prasad		Prasad
8243	Prasad		Prasad
8244	Prasad		Prasad
8245	Prasad		Prasad

← Smriti Rajendra Gauran  
Surbh Amor Ekshing  
Sayam Deshmukh Karake



Prasad  
**HEAD**  
DEPARTMENT OF CHEMISTRY  
VIVEKANAND COLLEGE, KOLHAPUR  
(EMPOWERED AUTONOMOUS)

Swami Vivekanand Shikshan Sanstha's, Kolhapur

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

Department of Chemistry

B.Sc.-III, Sem-V, Internal Examination 2023 – 24

Paper Code – DSC-1002E2: Analytical Chemistry

Day & Date: Saturday, 21/10/2023 Time: 1.00 p.m.-02.00 pm Total Marks- 15

---

**Q.1 Answer the following questions [ any one].**

10

- 1] Describe classical and analytical methods for locating end points of potentiometric titrations.
- 2] Explain acid base titrations and redox titrations.

**Q.2 Give short notes on [any one].**

05

- 1] Advantages of potentiometric titrations.
- 2] Explain precipitation titrations.



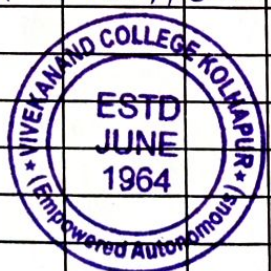
*[Signature]*

**HEAD**  
DEPARTMENT OF CHEMISTRY  
VIVEKANAND COLLEGE, KOLHAPUR  
(EMPOWERED AUTONOMOUS)



Roll	Sign				Roll				
8206					8246	<del>Ambar</del>			
8207	Bhaskar				8247	<del>Ambar</del>			
8208	<del>Ambar</del>				8248	<del>Ambar</del>			
8209	<del>Ambar</del>				8249	<del>Ambar</del>			
8210	<del>Ambar</del>				8250	<del>Ambar</del>			
8211	P.T.C				8251	-			
8212	<del>Ambar</del>				8252	<del>Ambar</del>			
8213	<del>Ambar</del>				8253	<del>Ambar</del>			
8214	<del>Ambar</del>				8254	<del>Ambar</del>			
8215	<del>Ambar</del>				8255	<del>Ambar</del>			
8216	<del>Ambar</del>				8256	<del>Ambar</del>			
8217	<del>Ambar</del>				8257	<del>Ambar</del>			
8218	<del>Ambar</del>				8258	<del>Ambar</del>			
8219	<del>Ambar</del>				8259	<del>Ambar</del>			
8220	<del>Ambar</del>				8260	<del>Ambar</del>			
8221	<del>Ambar</del>				8261	<del>Ambar</del>			
8222	<del>Ambar</del>				8262	<del>Ambar</del>			
8223	<del>Ambar</del>				8263	<del>Ambar</del>			
8224	<del>Ambar</del>				8264	<del>Ambar</del>			
8225	<del>Ambar</del>				8265	<del>Ambar</del>			
8226	<del>Ambar</del>				8266	<del>Ambar</del>			
8227	<del>Ambar</del>				8267	<del>Ambar</del>			
8228	<del>Ambar</del>				8268	<del>Ambar</del>			
8229	<del>Ambar</del>				8269	<del>Ambar</del>			
8230	<del>Ambar</del>				8270				
8231	<del>Ambar</del>				8271	<del>Ambar</del>			
8232	<del>Ambar</del>				<del>8271</del>	<del>Ambar</del>			
8233	<del>Ambar</del>				<del>Ambar</del>				
8234	<del>Ambar</del>				<del>Ambar</del>				
8235	<del>Ambar</del>				<del>Ambar</del>				
8236	<del>Ambar</del>				<del>Ambar</del>				
8237	<del>Ambar</del>				8292	<del>Ambar</del>			
8238	<del>Ambar</del>				8292	<del>Ambar</del>			
8239	<del>Ambar</del>								
8240	<del>Ambar</del>								
8241	<del>Ambar</del>								
8242	<del>Ambar</del>								
8243	<del>Ambar</del>								
8244	<del>Ambar</del>								
8245	<del>Ambar</del>								

(Industrial Chemistry)



← Smriti Rajendray Gurav.  
← Sourabh Amar Elashikya  
← Sarak Sayam Deshbhushan Karolikar  
← Ugma Intiyaj Baggi

Utkarsh Shivaji Patil (sem II)  
Utkarsh Shivaji Patil (sem VI)

Ambar  
**HEAD**  
DEPARTMENT OF CHEMISTRY  
VIVEKANAND COLLEGE, KOLHAPUR  
(EMPOWERED AUTONOMOUS)