

Vivekanand College, Kolhapur (Autonomous)

Department of Chemistry

M. Sc. II Sem. III Organic Chemistry

Theory Internal Examination 2023-24

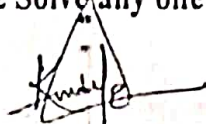
All the students of M.Sc. II Organic chemistry are hereby informed that their theory Internal Examination will be conducted from 07th November, 2023 to 10th November, 2023. The examination will be conducted only one time, students are directed to attend the examination without fail. Syllabus and schedule for examination will be as mentioned in following table.

Sr. No.	Name of Paper	Topics
1	Organic Reaction Mechanism 07/11/2023 Time: 11:30 to 12:30 pm to 1:30 pm	Unit II – Pericyclic Reactions Unit III - Methods of determining reaction mechanism
2	Advanced Spectroscopic Methods 08/11/2023 Time: 11:30 to 12:30 pm to 1:30 pm	Unit II – Proton NMR Spectroscopy Unit IV – Carbon-13 NMR Spectroscopy
3	Advanced Synthetic methods 09/11/2023 Time: 11:30 to 12:30 pm to 1:30 pm	Unit I – Disconnection Approach Unit III – Applications of Metals in Organic Synthesis
4	Drugs & heterocycles 10/11/2023 Time: 11:30 to 12:30 pm 1:30 pm	Unit I – Drug Design & Study of Antibiotics Unit II – Five Membered heterocycles

*Nature of question paper: -

Q.1 Solve any one out of a) & b) ----- 10 M

Q.2 Solve any one out of a) & b) ----- 10 M



Dr. K. A. Undale

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Dr. Mrs. S. D. Shirke

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Vivekanand College, Kolhapur (Empowered Autonomous)
PG Department of Chemistry
M.Sc. II, Sem III Organic Chemistry
Internal Examination 2023-24
Paper CC-1152C Advanced Spectroscopic Methods

Day and Date: Wednesday 08/11/2023

Marks: 20

Time: 11.30am to 12.30 pm

- Instructions: 1. Write any two questions.
2. Figures to draw necessary diagram wherever necessary.
3. Each question carries 10 Marks.

- Q.1 What is coupling constant? Discuss the effect of electronegative substituent on coupling constant of Geminal and Vicinal protons.
- Q.2 What is DEPT? Explain in brief the DEPT technique with suitable examples.
- Q.3 Explain the Heteronuclear coupling in ^{13}C NMR with nuclei F, P and D.
- Q.4 Explain spin-spin splitting with examples.



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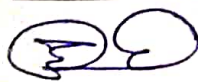
M. Sc II (organic chemistry) sem-III

Internal Examination 2023-24

~~Attendance Sheet (Academic year 2022-23)~~

subject : Advanced spectroscopic Methods.

Sr.No	Name of student	Sign
1	Rutuja Rajendra Atigre	Rutuja
2	Shantiraj Dattaraj Bhusnar.	Shantiraj
3	Bondre Susmita Sambhaji	Bondre
4	Dabade Shagun Shankar	Dabade
5	Desai Aarti Vinod	Desai
6	Dhavale Preetibha Vitthal	Dhavale
7	Gangadhare Shweta Shashikant	Gangadhare
8	Ghufepatil Aniket Rajeshwar	Ghufepatil
9	Gosavi Sandip Dilip	Gosavi
10	Kadam Snehal Shrirang	Kadam
11	Kaul Vishal Ananda.	Kaul
12	Kamble Pramoj Sanjay	Kamble
13)	Pranod Harmanant Kamble	Pranod
14)	Rohan Rajaram Khot	Rohan
15)	Shamrao Balaso Khot.	SHAMRAO
16)	Kokate Prasad Shivaji	Kokate
17)	Kolekar Satish Shivaji	Kolekar
18)	Kumbhar Sonoli Vilas	Kumbhar
19)	Mahadik Ishwari Saalushiv	Mahadik
20)	Maskar Asawari Sanjay	Maskar
21)	Mhadgut Radhika Ramesh	Radhika
22)	Mujawar Aaliya Altaf	Mujawar
23)	Nashte Riteshkumar Rameshwar	Nashte
24)	Normale Shubhangi Dhanaji	Normale
25)	Patade Tejas Shivaji	Patade
26)	Patil Abhijit Hindurao	Patil
27)	Patil Aniket Sambhaji	Patil
28)	Patil Arun Namdev	Patil
29)	Patil Ashwini Ashok	Patil
30)	Patil Digambar Prakash	Patil
31)	Patil Harshada Sanjay	Patil
32)	Patil Karuna Namdev	Patil
33)	Patil Mayuraj Rajendra	Patil



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34)	Patil Meenal Mamsing	Patil
35)	Patil Poonam Suresh	Patil
36]	Patil Shweta Shivaji I	Soni
37)	Patil Tanuja Tanaji	Patil
38)	Pavale Aniket Uday	Patil
39]	Pednekar Sahil Sureshant	Patil
40]	Ramale Arati Subhash	Patil
41]	Salunke Pranali Prakash	Patil
42]	Shinde Sampada Nanasa	Patil
43]	Suryakanish Pravin Dhanaji	Patil
44]	Tamboli Riyaj Shakir	Patil
45]	Thorat Pravin Manuti	Patil

Vivekanand College, Kolhapur (Empowered Autonomous)
PG Department of Chemistry
M.Sc. II, Sem III Organic Chemistry
Internal Examination 2023-24
Paper CC-1151C Organic Reaction Mechanism

Day and Date: Tuesday 07/11/2023

Marks: 20

Time: 11.30am to 12.30 pm , 1.00PM to 2.00PM

Instructions: 1. Write any two questions.

2. Figures to draw necessary diagram wherever necessary.

3. Each question carries 10 Marks.

- Q. 1 State and explain Hammett's equation.
- Q. 2 Describe FMO approach for cycloaddition reaction.
- Q. 3 Describe the following methods used to determine reaction mechanism.
- Testing of possible intermediate
 - Isotope labelling technique
 - Trapping of intermediate
- Q. 4 Describe FMO approach for electrocyclic reaction.



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Name of Supervisor: MISS. P.A. Gholap. Day & Date: _____
 Name of Paper & Code: Organic Rea' mechanism Time: 1.00 pm to 2.00 pm

Name of Student	Sign	Name of Student	Sign
1) Rutuja Atigre	<u>Rutuja</u>		
2) Bhusnor. shaniraj	<u>shaniraj</u>		
3) Bondre Susmita	<u>Bondre</u>		
4) Dabade shagun S.	<u>Dabade</u>		
5) Desai P. Aarti. V.	<u>Desai</u>		
6) Dhavale P. otibha. V.	<u>Dhavale</u>		
7) Gangadhare shweta S.	<u>Gangadhare</u>		
8) Ghudepatil Aniket R.	<u>Ghudepatil</u>		
9) Gosavi Sandip Dilip	<u>Gosavi</u>		
10) Kadum Snehal Shrirang	<u>Kadum</u>		
11) Kale Vishal Ananda	<u>Kale</u>		
12) Kamble Rang S.	<u>Kamble</u>		
13) Pramod Hanuman Kamble	<u>Pramod</u>		
14) Rohan Rajaram Khot	<u>Rohan</u>		
15) Shamrao Balaso Khot	<u>SHAMRAO</u>		
16) kokate Prasad shivaji	<u>kokate</u>		
17) kolekar Satish Shivaji	<u>kolekar</u>		
18) Kumbhar Sonali Vilas	<u>Kumbhar</u>		
19) Mahadik Ishwari sadashiv.	<u>Mahadik</u>		
20) Maskar Asawari Sanjay	<u>Maskar</u>		
21) Mhadgut Radhika Ramesh	<u>Radhika</u>		
22) Mujawar Aaliya Altaf	<u>Mujawar</u>		
23) Nashte Riteshkumar Rameshwar	<u>Nashte</u>		
24) Nirmale shubhangi Dhanaji	<u>Nirmale</u>		
25) patade Tejas Shivaji	<u>Patade</u>		
26) Patil Abhijit Hindurao	<u>Patil</u>		
27) Patil Aniket sambhaji	<u>Patil</u>		
28) Patil Aruna Namdev	<u>Patil</u>		

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Signature of Faculty:

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Vivekanand College, Kolhapur (Empowered Autonomous)
PG Department of Chemistry
M.Sc. II, Sem III Organic Chemistry
Internal Examination 2023-24
Paper CC-1153C Advanced Synthetic Methods

Day and Date: Thursday 09/11/2023

Marks: 20

Time: 11.30am to 12.30 pm

- Instructions: 1. Write any two questions.
2. Figures to draw necessary diagram wherever necessary.
3. Each question carries 10 Marks.

- Q. 1 What is disconnection approach? Explain one group and two group disconnections in 1,2 and 1,3 difunctional compounds.
- Q. 2 Give different synthetic applications of palladium metal.
- Q. 3 Explain the use of Michael addition and Robinson annulation reaction in retrosynthetic analysis.
- Q. 4 Write a short note on Thallium nitrate and Peterson Olefination reaction.



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Sr.No.	Roll No.	StudentName	StudentMobileNo	Sign
1	380	ATIGRE RUTUJA RAJENDRA	7498115474	<i>Atigre</i>
2	381	BHUSNAR SHANIRAJ DATTATRAY		<i>Shaniraj</i>
3	382	BONDRE SUSMITA SAMBHAJI	9527452985	<i>Bondre</i>
4	383	DABADE SHAGUN SHANKAR	9834314417	<i>Dabade</i>
5	384	DESAI AARTI VINOD	7666272717	<i>Desai</i>
6	385	DHAVAL PRATIBHA VITTHAL	9175764539	<i>Dhaval</i>
7	386	GANGADHARE SHWETA SHASHIKA	9552626390	<i>Gangadhare</i>
8	387	GHUTE PATIL ANIKET RAJESHWAR	7776062215	<i>Ghute</i>
9	388	GOSAVI SANDIP DILIP	9284427576	<i>Gosavi</i>
10	389	KADAM SNEHAL SHRIRANG	9322344983	<i>Kadam</i>
11	390	KALEL VISHAL ANANDA	7796204730	<i>Kalel</i>
12	391	KAMBLE ANJALI SANJAY	9422415805	
13	392	KAMBLE MANOJ SANJAY	8625051608	<i>Kamble</i>
14	393	KAMBLE PRAMOD HANMANT	7378353160	<i>Kamble</i>
15	394	KHATAVKAR VAISHNAVI ANIL	9284669103	
16	395	KHOT ROHAN RAJARAM	7058119981	<i>Khot</i>
17	396	KHOT SHAMRAO BALASO	9130556458	<i>Khot</i>
18	397	KOKATE PRASAD SHIVAJI	8329778005	<i>Kokate</i>
19	398	KOLEKAR SATISH SHIVAJI	9022087595	<i>Kolekar</i>
20	399	KUMBHAR SONALI VILAS	9764212769	<i>Kumbhar</i>
21	400	MAHADIK ISHWARI SADASHIV		<i>Mahadik</i>
22	401	MASKAR ASAWARI SANJAY	9049433397	<i>Maskar</i>
23	402	MHADGUT RADHIKA RAMESH	8767030827	<i>Mhadgut</i>
24	403	MUJAWAR AALIYA ALTAF	7558265877	<i>Mujawar</i>
26	404	NASHTE RITESHKUMAR RAMESHW	9096026314	<i>Nashte</i>
27	405	NIRMALE SHUBHANGI DHANAJI	6361679007	<i>Nirmale</i>
28	406	PATADE TEJAS SHIVAJI	7875169054	<i>Patade</i>
29	407	PATIL ABHIJIT HINDURAO	7558438002	<i>Patil</i>
30	408	PATIL ANIKET SAMBHAJI	7875069434	<i>Patil</i>
31	434	PATIL ARUNA NAMDEV	8329601655	<i>Patil</i>
32	409	PATIL ASHWINI ASHOK	8080912637	<i>Patil</i>
33	410	PATIL DIGAMBAR PRAKASH	8010353677	<i>Patil</i>
34	340	PATIL HARSHADA SANJAY	7219340556	<i>Patil</i>
35	435	PATIL KARUNA NAMDEV	9359939334	<i>Patil</i>
36	411	PATIL MAYURESH RAJENDRA	8208331072	<i>Patil</i>
37	412	PATIL MRUNAL MANSING	8766969254	<i>Patil</i>
38	413	PATIL POONAM ALIAS SONALI SUR	8080919898	<i>Patil</i>
39	414	PATIL SHWETA SHIVAJI	9172713230	<i>Patil</i>
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41	416	PAVALE ANIKET UDAY	9665667130	<i>Pavale</i>
42	417	PEDNEKAR SAHIL SURYAKANT	9730969175	<i>Pednekar</i>
43	418	RUMALE ARATI SUBHASH	8177839921	<i>Rumale</i>
44	419	SALUNKHE PRANALI PRAKASH	9028303253	<i>Salunkhe</i>
45	420	SHINDE SAMPADA NANASO	8421411691	<i>Shinde</i>
46	421	SURAYVANSI PRAVIN DHANAJI	7218646437	<i>Surayvansi</i>
47	422	TAMBOLI RIYAJ SHAKIL	9022820110	<i>Tamboli</i>
48	423	THORAT PRAVIN MARUTI	7841051843	<i>Thorat</i>



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PG Department of Chemistry
M.Sc. II, Sem III Organic Chemistry
Internal Examination 2023-24
Paper CC-1154C Drugs and Heterocycles

Day and Date: Friday 10/11/2023
Time: 11.30 am to 12.30 pm

Marks: 20

Instructions: 1. Write any two questions.
2. Figures to draw necessary diagram wherever necessary.
3. Each question carries 10 Marks.

- Q. 1 What is QSAR? Give the structure activity relationship of β -Lactum.
Q. 2 Explain synthesis of furan and Electrophilic Substitution reaction in details.
Q. 3 What is Drug? Describe in detail new drug development process.
Q. 4 Explain synthesis of pyrrole and Electrophilic Substitution reaction in details.



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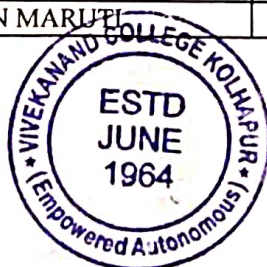
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DEPARTMENT OF CHEMISTRY

M.Sc. II Organic Chemistry Internal Exam Student List Year 2023-24

Sr.No.	Roll No.	StudentName	StudentMobileNo	Sign
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