

Vivekanand College, Kolhapur (Autonomous)
Department of Chemistry
M.Sc. II Sem. III
Internal Examination - 2020 - 2021

All Students of M.Sc II are here by inform that terir theory Internal Examination of Sem III will be conducted in online manner from 10th Jan to 13th Jan 2021. The details regarding the time table syllabus as follows.

Sr.No	Name of Paper date and time	Topic
1	Organic Reaction Mechanism 10/01/2021 1.30pm to 2.00pm	1] Unit I 2] Unit II
2	Advance Spectroscopic Method 11/01/2021 1.30pm to 2.00pm	1] Unit I 2] Unit II
3	Advance Synthetic Method 12/01/2021 1.30pm to 2.00pm	1] Unit I 2] Unit III
4	Drugs and Heterocycles 13/01/2021 1.30pm to 2.00pm	1] Unit I 2] Unit III



Dr. D. B. Patil
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Head
Dept. of Chemistry
Vivekanand College Kolhanur

Vivekanand College, Kolhapur (Autonomous)
Department of Chemistry
M.Sc. (Part – II) (Semester-III) (CBCS)
Internal examination 2020-21
Advanced Synthetic Methods (Paper No. 1145A)

Instruction: 1) Attempt all the questions

- Q1. Explain with detail mechanism of Suzuki and Heck coupling reaction. [10]
- Q2. Explain the mechanism with the example Barton and Shapiro reaction [10]
- Q3. Describe the various applications of Thallium Nitrate as a oxidising agent. [10]
- Q4. Give the application of DCC and O₃ [10]
- Q5. What are organosilicon compounds? Explain their different applications. [10]
- Q6. What are Ionic liquids? Explain the characteristic properties and four applications of them. [10]

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Department of Chemistry
M.Sc. (Part – II) (Semester-III) (CBCS)
Internal examination 2020-21
Drugs and Heterocycles (Paper No. 1146A)

Instruction: 1) Attempt all the questions

Marks: 20

- Q1. Discuss in detail Synthetic methods of Thiepinines. [10]
- Q2. Write the synthesis of Anaesthetic drugs like Lidocaine and Thiopental [10]
- Q3. Give the synthesis of Diazepam and Trimeprazine. [10]
- Q4. What are triazines? Explain in detail the chemical reactions of Diazines. [10]
- Q5. Give the synthesis and reactions of Azepines. [10]

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Department of Chemistry
M.Sc. (Part – II) (Semester-III) (CBCS)
Internal examination 2020-21
Organic Reaction Mechanism (Paper No. 1143A)

Instruction: 1) Attempt all the questions

- Q. 1. Describe the ene reaction. [10]
- Q. 2. Explain Wolff and Favorskii rearrangement reaction [10]
- Q. 3. Explain Huckel-Mobius method for electrocyclic and cycloaddition reaction [10]
- Q. 4. Explain Dienone-Phenol and Smiles rearrangement reaction [10]
- Q. 5. Explain FMO method for cycloaddition reaction [10]

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Department of Chemistry
M.Sc. (Part – II) (Semester-III) (CBCS)
Internal examination 2020-21
Advanced Spectroscopic Methods (Paper No. 1144A)

Instruction: 1) Attempt all the questions

- Q1. Give the proper notations to different spin active nuclei. Explain spin-spin splitting of the different two and three nuclei system with suitable examples. [10M]
- Q2. a) Explain factors which lead to complexity in the signal with suitable example. [10 M]
- b) Distinguish between first order and second order spectra. [10 M]
- Q3. Explain the effect of various factors on coupling constant of vicinal and germinal Protons. [10M]
- Q4. Describe McLafferty Rearrangement with suitable examples. [10M]
- Q5. Give the fragmentations of ketones, aldehydes, esters, amines and haloalkanes with suitable examples. [10M]

Vivekanand College, Kolhapur (Autonomous)
M.Sc. II Sem. III Organic reaction Mechanism
Internal Examination Jan - 2021
Online Attendance

Timestamp	Username	Name of the Student	PRN Number
2021/01/10 1:55:45 pm GMT+5:30	gosavisourabh4750@gmail.com	Sourabh Gosavi	2019111004
2021/01/10 1:56:23 pm GMT+5:30	nikeeta2203@gmail.com	Kamble Nikeeta Deepak	2019111013
2021/01/10 1:57:44 pm GMT+5:30	pranithuge210@gmail.com	Pranit Satish Huge	2019111006
2021/01/10 1:57:54 pm GMT+5:30	pisalpravin210@gmail.com	Pravin Rajendra pisal	2019111033
2021/01/10 1:57:57 pm GMT+5:30	dipakjadhav9119@gmail.com	Dipak Hanmant Jadhav	2019111008
2021/01/10 1:58:28 pm GMT+5:30	kajolmirajkar2910@gmail.com	Kajol krushnath mirajkar	2019111023
2021/01/10 1:58:28 pm GMT+5:30	kasutar98@gmail.com	Kedar Ashok Sutar	2019111037
2021/01/10 1:58:39 pm GMT+5:30	ravilad7733@gmail.com	Ravi Maruti Lad	2019111019
2021/01/10 1:58:41 pm GMT+5:30	ganesh.jadhav201666@gmail.com	Ganesh Jadhav	2019111009
2021/01/10 1:59:02 pm GMT+5:30	dp192310@gmail.com	Dipali Sunil Patil	2019111025
2021/01/10 1:59:13 pm GMT+5:30	tejashri1910@gmail.com	tejashri1910@gmail.com	2019111043
2021/01/10 1:59:13 pm GMT+5:30	sonuchemer@gmail.com	Snehal Suresh Jadhav	2019111012
2021/01/10 1:59:17 pm GMT+5:30	kj4121997@gmail.com	Komal Jadhav	2019111010
2021/01/10 1:59:20 pm GMT+5:30	reenaupatil@gmail.com	Reena Umeshchandra Patil	2019111028
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2021/01/10 2:01:32 pm GMT+5:30	sutarprachi1997@gmail.com	Prachi sutar	2019111038
2021/01/10 2:01:53 pm GMT+5:30	meghagurav99@gmail.com	Megha Dhondiram	2019111005
2021/01/10 2:02:08 pm GMT+5:30	magadum1457@gmail.com	Rani nivas magadum	2019111021
2021/01/10 2:02:53 pm GMT+5:30	piyushabhosale23@gmail.com	Piyusha Manik Bhosale	2019111002
2021/01/10 2:03:07 pm GMT+5:30	rajeshwarisutar37496@gmail.com	Rajeshwari ratnakar sutar	201911139
2021/01/10 2:03:30 pm GMT+5:30	shubham9494vt@gmail.com	Shubham Vijay Talekar	2019111040

Vivekanand College, Kolhapur (Autonomous)

Department of Chemistry

M.Sc. II Sem. IV

Internal Examination August - 2020 - 2021

All Students of M.Sc II are here by inform that their theory Internal Examination of Sem IV will be conducted in online manner from 09th Aug to 12th Aug 2021. The details regarding the time table syllabus as follows.

Sr.No	Name of Paper date and time	Topic
1	Theoretical organic Chemistry 09/08/2021 1.30pm to 2.00pm	1] Free radical reaction 2] Non Benzoid Compounds
2	Stereochemistry 10/08/2021 1.30pm to 2.00pm	1] Allenes 2] Stereochemistry of Acyclic Compounds
3	Natural Product 11/08/2021 1.30pm to 2.00pm	1] Steroids 2] Alkaloids
4	Applied organic Chemistry 12/08/2021 1.30pm to 2.00pm	1] Agrochemicals 2] Perfumery



S. D. Shirke

Dr. Mrs. S. D. Shirke

Head

Dept. of Chemistry

Vivekanand College, Kolhapur

Vivekanand College, Kolhapur
(Autonomous) M. Sc. II - (SEM-IV)
[2020-21] Paper
No.1152 B Applied Organic Chemistry
M. Sc. II - (SEM-IV) [2020-21] Paper No.1152 B Applied Organic Chemistry

* Indicates required question

1. Email *

2. Name of the Student *

3. Roll No. *

4. Contact Number *

5. 1. Gibberellins arediterpene acids. *

Mark only one oval.

- monocyclic
 bicyclic
 tricyclic
 tetracyclic

10. 6. Baygon is synthesized from methyl isocyanate and *

Mark only one oval.

- isopropyl phenol
 ethyl benzene
 isopropoxy phenol
 propaxur

11. 7. Following is not the correct statement about dye. *

Mark only one oval.

- Dye should be resistant to a normal laundry or cleansing procedures
 A dye is a coloured substance but all coloured substances are not dyes.
 A dye is always coloured substances
 All of these

12. 8. The chemical name of Ziram is *

Mark only one oval.

- zinc bis (dimethyldithiocarbamate)
 manganese (dimethyldithiocarbamate)
 zinc (diethylthiocarbamate)
 zinc ethane-1,2-diyf bis (dithiocarbamate)

13. 9. The structure of Chlorpyrifos contains the heterocyclic ring of *

Mark only one oval.

- pyrrole
 pyrazole
 piperidine
 pyridine

6. 2. Indole -3 -acetic acid is prepared by the reaction of indole and

Mark only one oval.

- ethylene glycol
 glycolic acid
 glycerene
 glyceraldehyde

7. 3. In azo dyes which type of chromophore group is present ? *

Mark only one oval.

- N = N
 C-H
 C = N
 N - N

8. 4. Congo red isdye. *

Mark only one oval.

- Direct
 Readymade
 Basic
 Both a and b

9. 5. Gibberellin is an example of plant..... *

Mark only one oval.

- growth inhibitor
 growth promotor
 exogenous hormone
 all of these

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1/7

<https://docs.google.com/forms/d/1DrRyYN-8cTYEtd9mJpic0uPNN4ANLUsP4H7pgzd8TE/edit?ts=951ba00>

2/7

23. 11:59 AM Vivekanand College, Kolhapur (Autonomous) M. Sc. II - (SEM-IV) [2020-21] Paper No.1152 B Applied Organic Chemistry

10/3/23, 11:59 AM

Vivekanand College, Kolhapur (Autonomous) M. Sc. II - (SEM-IV) [2020-21] Paper No.1152 B Applied Organic Chemistry

14. 10. The dyes which are formed on the cellulosic fibers called as..... *

Mark only one oval.

- Ingrained
 Developed
 Readymade
 Both a and b

15. 11. The flowerheads of Chrysanthemum cinerariaefolium are used for extraction of *

Mark only one oval.

- allethrin
 prothrin
 pyrethroids
 carbaryl

16. 12.is an intermediate organic or inorganic compound used to fix a dye of fiber.

Mark only one oval.

- Mordants
 Acidic mordants
 Basic mordant
 All of these

13. A dye is a substance which must fulfil the following conditions. *

Mark only one oval.

- coloured
 resistant to light and water
 have strong ability to fix on fabric
 all of these

18. 14. Acid red is a type of.....dye. *

Mark only one oval.

- Acid azo
 Basic azo
 Direct azo
 Mordant

19. 15. Carbaryl is synthesized from the reaction between 1- Naphthol and..... *

Mark only one oval.

- methyl isocyanate,
 phosgene
 methyl amine
 all of these

20. 16. Picric acid and naphthol yellow are the examples of dyes. *

Mark only one oval.

- Azo
 Nitro
 Diphenyl
 Both a and b

21. 17. The example of thiocarbamate insecticide among the following is..... *

Mark only one oval.

- allethrin
 indole - 3-acetic acid
 monocrotophos
 zineb

22. 18. Direct sulfonation can be achieved by..... techniques. *

Mark only one oval.

- strong sulphuric acid
 oleum
 sulphur trioxide
 all of these

23. 19. A dye which contains molecules which absorbs light of shorter wavelength and reemits the light of longer wavelength is called as..... *

Mark only one oval.

- ultramarine
 indigo
 fluorescent brightening agent
 all of these

24. 20. The general structure of pyrethrin involves the esters of cyclopropane carboxylic acids and

Mark only one oval.

- cyclobutane
 cyclopentane
 cyclopentene
 cyclopentenolone

Vivekanand College, Kolhapur (Autonomous)

M.Sc. II Sem.

IV Stereochemistry Examination August - 2021

Paper No. 11508

Instructions:

- 1) Select the correct alternative for the given question
- 2) Each question carries 1 mark

Date: Tuesday, 10th August, 2021

Time: 1:30 pm to 2:00 pm (30 min)

* Indicates required question

1. Email *

2. Name of the Student *

3. Examination Seat Number or Roll Number of Students

4. PRN Number

5. Mobile Number of the Student *

Vivekanand College, Kolhapur (Autonomous)

M.Sc. II Sem. IV Stereochemistry

Examination August - 2021

Internal

6. One of the reason for steric strain observed in boat conformation of cycloheptane is _____

Mark only one oval.

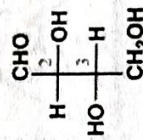
- axial interactions
- flagpole hydrogens
- equatorial hydrogens
- eclipsing hydrogens

7. Cyclic compounds with _____ members are known as medium sized rings.

Mark only one oval.

- 5-7
- 7-10
- 8-11
- >12

8. Which is the correct assignment of chirality at C2 and C3 of the following molecule?



Mark only one oval.

- 2S,3R
- 2S,3S
- 2R,3R
- 2R,3S

9. In cyclic system change in position gives rise to _____.

Mark only one oval.

- anantomer
 anamer
 epemer
 epimer

10. In fused ring systems ___ adjacent carbon atoms are common in between two rings.

Mark only one oval.

- 4
 3
 2
 1

11. Decahydronaphthalene is _____.

Mark only one oval.

- optically active
 optically inactive
 optically neutral
 optically bright

12. Which of the following is an example of regioselective reaction?

Mark only one oval.

- Debromination of 2,3- dibromobutane
 2-bromo octane with sodium hydroxide
 Addition of HI to propylene
 Debromination of meso dibromobutane

13. The reaction which gives exclusively one of several possible isomeric products is called _____.

Mark only one oval.

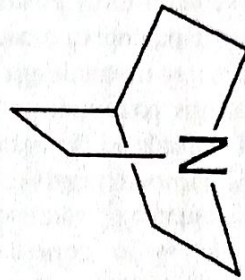
- Dynamicselective
 Stereoselective
 Regioselective
 Stereospecific

14. The reaction in which stereochemically different molecules react differently is called _____.

Mark only one oval.

- Dynamicselective
 Stereoselective
 Regioselective
 Stereospecific

15. Identify following compound.



Mark only one oval.

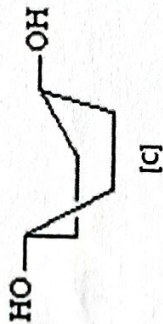
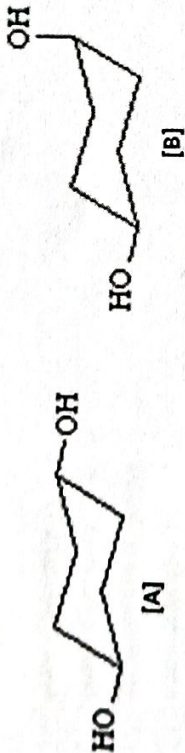
- 1-azabicyclo[2.2.2]cetane
 1-thiabicyclo[2.2.2]octane
 1-azabicyclo[2.2.2]octane
 1-azabicyclo[2.3.2]octane

16. The conversion of prochiral unit into chiral unit in unequal amounts of stereoisomers

Mark only one oval.

- asymmetric synthesis
 symmetric synthesis
 miscellaneous synthesis
 parallel synthesis

17. For 1,4-cyclohexanediol, which of the following is most stable conformation?



Mark only one oval.

- C
 A
 B
 All have similar stability

18. Percentage of optical purity is equal to _____.

Mark only one oval.

- percentage of enantiomeric excess
 percentage of sample
 specific rotation
 weight of sample

19. trans-annular strain is also called as _____

Mark only one oval.

- proximity effect
 Fajans effect
 approximity effect
 neutrality effect

20. In Truxilic acid all stereoisomers are _____.

Mark only one oval.

- Optically inactive
 Optically active
 Proactive
 Optically passive

21. There are 5 stereoisomers for _____.

Mark only one oval.

- Truxilic Acid
 Butanedioic acid
 DMT
 1-isopropyl-4-methylcyclohexane

22. Conformational isomers that are isolable due to high energy barriers are called _____.

Mark only one oval.

- rotamers
 atropisomers
 toramers
 enantiomers

23. cis & trans 1,4-dichlorocyclohexanes are achiral as they have a _____.

Mark only one oval.

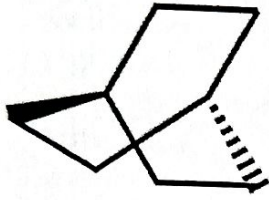
- plane of symmetry
 centre of symmetry
 alternating axis of symmetry
 square of symmetry

24. The Curtin-Hammett principle is related with _____.

Mark only one oval.

- Stereochemistry
 Chemical kinetics
 Bridged rings
 Fused rings

25. Identify the following compound.



Mark only one oval.

- bicyclo[2.2.2]octane
 bicyclo[2.2.2]octene
 bicyclo[2.2.2]octene
 bicyclo[2.2.2]noctane

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Vivekanand College, Kolhapur (Autonomous)
M.Sc. II Sem. IV Theoretical Organic Chemistry
Stereochemistry
Internal Examination August - 2021
Online Attendance

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2021/08/09 1:56:23 pm GMT+5:30	ravilad7733@gmail.com	Ravi Maruti Lad	2019111019
2021/08/09 1:57:44 pm GMT+5:30	malisupriya27@gmail.com	Mali Supriya dhondiba	2019111022
2021/08/09 1:57:54 pm GMT+5:30	pisalpravin210@gmail.com	Pravin Rajendra pisal	2019111033
2021/08/09 1:57:57 pm GMT+5:30	pranithuge210@gmail.com	Pranit Satish Huge	2019111006
2021/08/09 1:58:28 pm GMT+5:30	kajolmirajkar2910@gmail.com	Kajol krushnath mirajkar	2019111023
2021/08/09 1:58:28 pm GMT+5:30	kasutar98@gmail.com	Kedar Ashok Sutar	2019111037
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2021/08/09 1:59:13 pm GMT+5:30	piyap1012@gmail.com	Snehal suresh patil	2019111031
2021/08/09 1:59:13 pm GMT+5:30	sonuchemer@gmail.com	Snehal Suresh Jadhav	2019111012
2021/09/10 1:59:17 pm GMT+5:30	dipakjadhav9119@gmail.com	Dipak Hanmant Jadhav	2019111008
2021/08/09 1:59:20 pm GMT+5:30	reenaupatil@gmail.com	Reena Umeshchandra Patil	2019111028
2021/08/09	tejashri1910@gmail.com	tejashri1910@gmail.com	2019111043

1:59:20 pm GMT+5:30			
2021/08/09 1:59:31 pm GMT+5:30	komalshelake9561@gmail.com	Komal Dilip Shelake	2019111034
2021/08/09 1:59:34 pm GMT+5:30	shubhamb3558@gmail.com	Shubham Rajendra bhosale	2721872
2021/08/09 1:59:44 pm GMT+5:30	toraskarsourabh@gmail.com	Sourabh Subhash Toraskar	2039
2021/08/09 1:59:45 pm GMT+5:30	snehalbhosale9108@gmail.com	Snehal krishnat Bhosale	2019111003
2021/08/09 1:59:45 pm GMT+5:30	rutujapatil8256@gmail.com	Hrutuja Mahadev Patil	2019111026
2021/08/09 1:59:48 pm GMT+5:30	ravirajshinde219@gmail.com	Raviraj shinde	2019111035
2021/08/09 1:59:49 pm GMT+5:30	rajshreekesare@gmail.com	Rajshree Rajaram Kesare	2019111014
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2021/08/09 2:00:01 pm GMT+5:30	khatangler@gmail.com	RAHUL PRAKASH KHATANGALE	2019111015
2021/08/09 2:00:02 pm GMT+5:30	pranotikining@gmail.com	Kininge Pranoti bharat	2019111016
2021/08/09 2:00:04 pm GMT+5:30	tejashri.shinde1993@gmail.com	Tejashri siddharth shinde	2019111036
2021/08/09 2:00:07 pm GMT+5:30	umranikarpranali@gmail.com	Pranali prakash Umranikar	2019111042
2021/08/09 2:00:11 pm GMT+5:30	varutekomal27@gmail.com	Komal Krushnat Varute	2019111044
2021/08/09 2:00:18 pm GMT+5:30	dhanashreethakar19@gmail.com	Dhanashree Thakar	2019111041
2021/09/10 2:00:54 pm GMT+5:30	aj791998@gmail.com	Amit Jadhav	2019111007
2021/08/09 2:00:56 pm GMT+5:30	sonalipatil07645@gmail.com	Sonali ananda patil	2019111032
2021/08/09	gosavisourabh4750@gmail.com	Sourabh Gosavi	2019111004

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2021/08/09 2:01:53 pm GMT+5:30	nikeeta2203@gmail.com	Kamble Nikeeta Deepak	2019111013
2021/08/09 2:02:08 pm GMT+5:30	magadum1457@gmail.com	Rani nivas magadum	2019111021
2021/08/09 2:02:53 pm GMT+5:30	piyushabhosale23@gmail.com	Piyusha Manik Bhosale	2019111002
2021/08/09 2:03:07 pm GMT+5:30	meghagurav99@gmail.com	Megha Dhondiram	2019111005
2021/08/09 2:03:30 pm GMT+5:30	shubham9494vt@gmail.com	Shubham Vijay Talekar	2019111040