



JIJAMATA FOUNDATION

SHREE P. E. (TATYA) PATIL INSTITUTE OF PHARMACY, JALGAON

(D. Pharmacy & B. Pharmacy) (Institute Code: MSBTE: 0642, DTE: 5283)

Gat No. 95/1, ChincholiShivar, Near Airport, Aurangabad Road, Jalgaon (M.S.) 425 003

B PHARMACY INTERNAL EXAMINATION - THEORY

Acad. Year	: 2023-24	Batch Year	: 2023-27
Semester	: Fourth	Sessional	: First
Subject	: Pharmaceutical Organic Chemistry III	Subject Code	: BP401T
Paper (T/P)	: Theory	Max. Marks	: 30
Time Duration	: 1 hour 30 minutes	Date	: 18/03/2024

I. Answer ALL the questions

5 x 2 = 10 Marks

1. Define stereo isomerism.
2. Explain the term Optical Activity.
3. What is geometrical isomerism.
4. Define Meso compound.
5. What is E and Z Isomer.

II. Answer any ONE from the following questions

1 x 10 = 10 Marks

1. What is Isomerism and Classification with Suitable Example.
2. Discuss Nomenclature of Geometrical isomerism

III. Answer any TWO from the following questions

2 x 5 = 10 Marks

1. Explain Method of Racemic Mixture modification.
2. Give Detail about Conformational isomerism in cyclohexane
3. Discuss Optical activity of biphenyl compound.



JIJAMATA FOUNDATION

SHREE P. E. (TATYA) PATIL INSTITUTE OF PHARMACY, JALGAON

(D. Pharmacy & B. Pharmacy) (Institute Code: MSBTE: 0642, DTE: 5283)

Gat No. 95/1, ChincholiShivar, Near Airport, Aurangabad Road, Jalgaon (M.S.) 425 003

B PHARMACY INTERNAL EXAMINATION - THEORY

Acad. Year	: 2023-24	Batch Year	: 2023-27
Semester	: Fourth	Sessional	: First
Subject	: Medicinal Chemistry – I	Subject Code	: BP402T
Paper (T/P)	: Theory	Max. Marks	: 30
Time Duration	: 1 hour 30 minutes	Date	: 19/03/2024

I. Answer ALL the questions

5 x 2 = 10 Marks

1. Write down the Structure and uses of Dopamine and Metoprolol.
2. What do you mean by Bioisoterism? Give its examples.
3. Write the structure and uses of Methyldopa and Terbutaline
4. Explain the term Partition Coefficient.
5. Define and classify Adrenergic Blockers. Give structure and uses of any two of them.

II. Answer any ONE from the following questions

1 x 10 = 10 Marks

1. Define and classify sympathomimetic agents. Discuss the SAR of sympathomimetic agents. Write the synthesis of phenylephrine.
2. Define biotransformation. Explain principle of drug metabolism including Phase I and Phase II pathways.

III. Answer any TWO from the following questions

2 x 5 = 10 Marks

1. Write the synthesis of Propranolol and Tolazoline.
2. Write the synthesis of Salbutamol with its uses.
3. Define and classify Parasympathomimetic agents. Write the synthesis of Carbachol.



JIJAMATA FOUNDATION

SHREE P. E. (TATYA) PATIL INSTITUTE OF PHARMACY, JALGAON

(D. Pharmacy & B. Pharmacy) (Institute Code: MSBTE: 0642, DTE: 5283)

Gat No. 95/1, ChincholiShivar, Near Airport, Aurangabad Road, Jalgaon (M.S.) 425 003

B PHARMACY INTERNAL EXAMINATION - THEORY

Acad. Year	: 2023-24	Batch Year	: 2023-27
Semester	: Fourth	Sessional	: First
Subject	: Physical Pharmaceutics-II	Subject Code	: BP403T
Paper (T/P)	: Theory	Max. Marks	: 30
Time Duration	: 1 hour 30 minutes	Date	: 20/03/2024

I. Answer ALL the questions

5 x 2 = 10 Marks

1. What do you mean by Newtonian system?
2. Define Brownian motion.
3. Explain the term electrophoresis.
4. Differentiate between true solution and suspension.
5. Write the equation of Stokes's law.

II. Answer any ONE from the following questions

1 x 10 = 10 Marks

1. Explain non-Newtonian system with the help of rheogram.
2. Write in detail about various kinetic properties of colloids.

III. Answer any TWO from the following questions

2 x 5 = 10 Marks

1. Discuss about electrical double layer.
2. Write down the application of rheology in pharmaceuticals.
3. What are the factors affecting the stability of suspension.



JIJAMATA FOUNDATION

SHREE P. E. (TATYA) PATIL INSTITUTE OF PHARMACY, JALGAON

(D. Pharmacy & B. Pharmacy) (Institute Code: MSBTE: 0642, DTE: 5283)

Gat No. 95/1, ChincholiShivar, Near Airport, Aurangabad Road, Jalgaon (M.S.) 425 003

B PHARMACY INTERNAL EXAMINATION - THEORY

Acad. Year	: 2023-24	Batch Year	: 2023-27
Semester	: Fourth	Sessional	: First
Subject	: Pharmacology I	Subject Code	: BP404T
Paper (T/P)	: Theory	Max. Marks	: 30
Time Duration	: 1 hour 30 minutes	Date	: 21/03/2024

I. Answer ALL the questions

5 x 2 = 10 Marks

1. Define agonist and antagonist give example?
2. Write note on tachyphylaxis and Idiosyncrasy?
3. Give short note on non-competitive and competitive antagonism?
4. What are ion channel receptors?
5. Give short note on Tyrosine Kinase Receptors.

II. Answer any ONE from the following questions

1 x 10 = 10 Marks

1. Define the term "biotransformation". Stages and mechanisms of biotransformation?
2. What are adverse drug reactions? What are the types of adverse drug reaction?

III. Answer any TWO from the following questions

2 x 5 = 10 Marks

1. Write about different routes of drug administration?
2. What is the receptor and classification of receptors?
3. Give the principle and mechanism of drug action?



JIJAMATA FOUNDATION

SHREE P. E. (TATYA) PATIL INSTITUTE OF PHARMACY, JALGAON

(D. Pharmacy & B. Pharmacy) (Institute Code: MSBTE: 0642, DTE: 5283)

Gat No. 95/1, ChincholiShivar, Near Airport, Aurangabad Road, Jalgaon (M.S.) 425 003

B PHARMACY INTERNAL EXAMINATION - THEORY

Acad. Year	: 2023-24	Batch Year	: 2023-27
Semester	: Fourth	Sessional	: First
Subject	: Pharmacognosy and Phytochemistry I	Subject Code	: BP405T
Paper (T/P)	: Theory	Max. Marks	: 30
Time Duration	: 1 hour 30 minutes	Date	: 22/03/2024

I. Answer ALL the questions

5 x 2 = 10 Marks

1. Define Pharmacognosy and crude drug.
2. Enlist the evaluation method of crude drug.
3. Write the identification test for alkaloid.
4. What is polyploidy?
5. Define glycoside and give its example.

II. Answer any ONE from the following questions

1 x 10 = 10 Marks

1. Give detail about classification of crude drug.
2. Add a note on growth regulator.

III. Answer any TWO from the following questions

2 x 5 = 10 Marks

1. Explain in detail organized & unorganized drug with suitable example.
2. Short note on adulteration.
3. Write in brief on scope & development of Pharmacognosy.