



QP Code: **119401**

Reg. No.:

IV Semester B. Pharm(2020 Batch) Degree I Sessional Theory
Examinations, February 2022

BP401T - Pharmaceutical Chemistry III (2017 Scheme)

Time: 1 Hr.30 Min.

Max. Marks: 30

- Answer all questions
- Draw diagrams wherever necessary

Essays

(10 x 1 = 10)

1. Discuss the reaction, mechanism and applications of Clemmensen reduction and metal hydride reduction.

Short Notes

(5 x 2 = 10)

2. Explain basicity of Pyrrole.
3. Birch reduction.

Answer Briefly

(2 x 5 = 10)

4. Wolff Kishner reduction.
5. Explain relative aromaticity of Thiophene, Furan and Pyrrole.
6. Why Pyrrole is more reactive in electrophilic substitution than Benzene.
7. Mention the importance of Dakin reaction.
8. Explain the mechanism involved in Claisen Schmidt condensation.



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QP Code: **119402**

Reg. No.:

IV Semester B. Pharm Degree (2019 Batch) I Sessional Theory Examinations,
February 2022

BP402T - Medicinal Chemistry-I (2017 Scheme)

Time: 1 Hr.30 Min.

Max. Marks: 30

- Answer all questions
- Draw structures wherever necessary

Essays

(10 x 1 = 10)

1. What are Opioid analgesics? Classify them with atleast one structure from each class. Explain the SAR of Morphine analogues.

Short Notes

(5 x 2 = 10)

2. Explain the synthesis of (a) Methohexital sodium
(b) Diazepam.
3. Classify Sedatives and Hypnotics. Explain the SAR of Barbiturates.

Answer Briefly

(2 x 5 = 10)

4. Write the synthesis and uses of Chlorpromazine hydrochloride.
5. Explain the SAR of Benzodiazepines.
6. Give the structure of (a) Haloperidol (b) Meprobamate (c) Pentobarbital
(d) Naloxone hydrochloride.
7. Write the synthesis and uses of Ketamine hydrochloride.
8. What are NSAIDs? Explain the synthesis of Ibuprofen.



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QP Code: **119403**

Reg. No.:

IV Semester B. Pharm(2019 Batch) Degree I Sessional Theory
Examinations, February 2022

BP403T –PhysicalPharmacy-II(2017 Scheme)

Time: 1.5 Hrs.

Max. Marks: 30

- Answer all questions
- Draw diagrams wherever necessary

Essays(10×1=10)

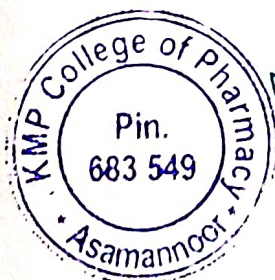
1. Explain the determination of surface tension of liquids by capillary rise methods.

ShortNotes(5 x2 =10)

2. Accelerated stability testing.
3. Explain the methods to determine the order of reaction.

AnswerBriefly(2x5= 10)

4. Define surface free energy.
5. What is meant HLB
6. Define half life
7. Define zero order reaction with example
8. Define spreading coefficient.





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Asamannoor P.O., Poomala, Perumbavoor, Ernakulam, Kerala – 683 549

QP Code: **119404**

Reg. No.:

IV Semester B. Pharm (2019 Batch) Degree I Sessional Theory Examinations,
(BP404 T) Pharmacology – I February 2022
(2017 Scheme)

Time: 1 Hr.30 Min.

Max. Marks: 30

- Answer all questions
- Draw diagrams wherever necessary

Essays

(10 x 1 = 10)

1. Classify anti-cholinesterase drugs. And mentioned its uses.

Short Notes

(5 x 2 = 10)

2. Classify receptors. Explain the significance of GPCR with relevant examples.
3. Explain different route of drug administrations.

Answer Briefly

(2 x 5 = 10)

4. Classify Cholinergic drugs.
5. Classify muscarinic receptors with respective agonist and antagonists.
6. Explain agonist and antagonist with examples.
7. Explain ion channel receptors.
8. Define the term drug with examples.

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Asamannoor P.O., Poomala, Perumbavoor, Ernakulam, Kerala – 683 549

QP Code: **119405**

Reg. No.:

IV Semester B. Pharm(2019 Batch) Degree I Sessional Theory Examinations,
February 2022

BP405T – Pharmacognosy and Phytochemistry I (2017 Scheme)

Time: 1 Hr.30 Min.

Max. Marks: 30

- Answer all questions
- Draw diagrams wherever necessary

Essays

(10 x 1 = 10)

1. Define Pharmacognosy. Explain different methods of classification of crude drugs with suitable examples

Short Notes

(5 x 2 = 10)

2. Plant hormones and their applications
3. What are the factors affecting the cultivation, collection and processing of crude drugs?

Answer Briefly

(2 x 5 = 10)

4. Define Garbling in processing of crude drugs.
5. Define hybridization and mutation
6. Inhalant allergens
7. Hallucinogens.
8. Differentiate organized drugs and unorganized drugs

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