



QP Code: **219401**

Reg. No.: .....

IV Semester B. Pharm(2019 Batch) Degree II Sessional Theory Examinations,  
March 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. Give two methods for synthesis and four reactions for Indole and Isoquinoline.

Short Notes

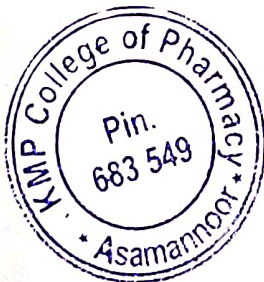
(5 x 2 = 10)

2. Explain the elements of symmetry.
3. Explain basicity of Pyridine.

Answer Briefly

(2 x 5 = 10)

4. Chiral molecule.
5. Give the reduction reaction for Pyridine.
6. Define racemic modification and resolution.
7. Define enantiomers with example.
8. Asymmetric Synthesis.





QP Code: **219402**

Reg. No.: .....

IV Semester B. Pharm Degree (2019 Batch) II Sessional Theory Examinations,  
March 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 Anticonvulsants? Classify them with atleast one structure from each class. Explain its SAR.

**Short Notes**

(5 x 2 = 10)

2. Explain the synthesis of (a) Neostigmine  
(b) Carbamazepine.
3. Classify and explain the SAR of Cholinergics.

**Answer Briefly**

(2 x 5 = 10)

4. Write the synthesis and uses of Dicyclomine.
5. Explain the SAR of Anticholinergic agents.
6. Give the structure of (a) Propranolol (b) Biperiden (c) Gabapentin (d) Valproic acid.
7. Write the synthesis and uses of Phenytoin.
8. Explain the synthesis and uses of Ethosuximide.



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QP Code: **219403**

Reg. No.: .....

IV Semester B. Pharm(2019 Batch) Degree II Sessional  
Theory Examinations, March 2022

**BP403T –Physical Pharmacy-II(2017 Scheme)**

Time: 1.5 Hrs.

Max. Marks: 30

- Answer all questions
- Draw diagrams wherever necessary

**Essays**

(10×1=10)

1. Define viscosity. Explain thixotropy with rheogram. How will you determine flow properties using Ostwald viscometer.

**Short Notes**

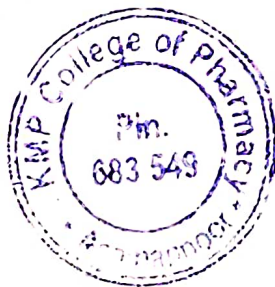
(5 x2 =10)

2. Define emulsion. Classify them and explain theories of emulsification with a neat diagram.
3. Differentiate between flocculated and deflocculated suspension.

**Answer Briefly**

(2x5= 10)

4. Degree of flocculation.
5. Micellar solubilisation.
6. Newtonian flow.
7. Stock's law.
8. Creaming.





# KMP COLLEGE OF PHARMACY

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

QP Code: **219404**

Reg. No.: .....

IV Semester B. Pharm(2019 Batch) Degree II 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-cholinergic drugs. And explain the pharmacological effects in CNS.

Short Notes

(5 x 2 = 10)

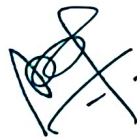
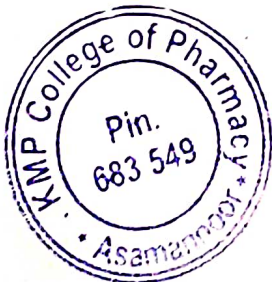
2. Classify adrenergic receptors and their significances.
3. Briefly explain the synthesis and release of adrenergic neurotransmission.

Answer Briefly

(2 x 5 = 10)

4. Pharmacological action of adrenaline in cardiac muscles.
5. Write the uses of anticholinergic drugs.
6. Explain the pharmacological action of atropine in eye.
7. Briefly explain the pharmacological action of adrenaline in urinary bladder.
8. Classify adrenergic drugs .

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QP Code: **219405**

Reg. No.: .....

IV Semester B. Pharm(2019 Batch) Degree II Sessional Theory  
Examinations, March 2022

**BP405T – Pharmacognosy and Phytochemistry (2017 Scheme)**

Time: 1 Hr.30 Min.

Max. Marks: 30

- Answer all questions
- Draw diagrams wherever necessary

**Essays** (10 x 1 = 10)

1. Define evaluation. Explain the different methods of evaluation of crude drug

**Short Notes** (5 x 2 = 10)

2. Define alkaloids and give the general chemical tests for alkaloids.
3. Discuss the various nutritional requirements in plant tissue culture.

**Answer Briefly** (2 x 5 = 10)

4. What is totipotency
  5. Define adulteration and substitution
  6. Gold beater skin test
  7. General chemical test for resins
  8. Stomatal number and stomatal index
- .....

