

ADICHUNCHANAGIRI UNIVERSITY

B.Pharmacy IV Semester Examination – October 2020

TIME: 2 Hours

MAX.MARKS: 40

SUB: Pharmacology I

QP CODE: 11424

Specific Instructions

1. Answer One Question from **Long Essay** (Each question carries 10 Marks).
2. Answer Four Questions from **Short Essay** (Each question carries 5 Marks).
3. Answer all **Short answers** (Each question carries 2 Marks)
4. Write the Question followed by Answer.
5. Write the same question numbers as they appear in this question paper.
6. Your answer should be specific to the questions asked.
7. Draw neat labelled diagrams wherever necessary.

Long Essay: Answer any One

1X10=10

1. Classify beta adrenergic blockers with examples. Explain their pharmacological actions and uses.
2. Classify anti-epileptic drugs with examples and explain about Phenytoin

Short Essay: Answer any Four

4X5=20

3. Write a note on bioavailability and bioequivalence.
4. Explain the pharmacological actions of Atropine.
5. Classify skeletal muscle relaxants with examples and write their actions.
6. Write a note on pre-anaesthetic medication.
7. Explain the mechanism of action of Benzodiazepines and their uses.
8. Explain the pharmacological actions of Levodopa.

Short Answers: Answer All the questions

5X2=10

9. Enlist the limitations of oral route of administration
10. Write a note on Salbutamol
11. Classify the centrally acting muscle relaxant drugs with examples.
12. Write the mechanism of action of tricyclic anti-depressant drugs.
13. Write a note on acute morphine poisoning

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B.Pharmacy IV Semester Examination – October 2020

TIME: 2 Hours

MAX.MARKS: 40

SUB: Pharmacognosy and Phytochemistry-I

QP CODE: 11425

Specific Instructions

1. Answer One Question from **Long Essay** (Each question carries 10 Marks).
2. Answer Four Questions from **Short Essay** (Each question carries 5 Marks).
3. Answer all **Short answers** (Each question carries 2 Marks)
4. Write the Question followed by Answer.
5. Write the same question numbers as they appear in this question paper.
6. Your answer should be specific to the questions asked.
7. Draw neat labelled diagrams wherever necessary.

Long Essay: Answer any One

1X10=10

1. What is evaluation? Explain in brief various methods of evaluation of crude drugs.
2. Define and classify glycosides with examples. Explain the properties and chemical tests used to identify glycosides

Short Essay: Answer any Four

4X5=20

3. Write a note on lycopodium spore method and its significances.
4. Write various advantages and dis-advantages cultivation of medicinal plants.
5. Give the source, method of preparation, chemical constituents and uses of castor oil.
6. Write the physical and chemical tests to differentiate acacia, agar and tragacanth.
7. Write a note on methods of adulteration with examples.
8. Write a note on mutation and its applications.

Short Answers: Answer All the questions

5X2=10

9. Enlist the various factors affecting cultivation of medicinal plants.
10. What is coppicing and felling?
11. What is Chaulmoogra oil? Give its uses.
12. Define enzymes. Give the source and uses of Papain.
13. Advantages of plant tissue culture technique

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TIME: 2 Hours

MAX.MARKS: 40

SUB: Medicinal Chemistry I

QP CODE: 11422

Specific Instructions

1. Answer One Question from **Long Essay** (Each question carries 10 Marks).
2. Answer Four Questions from **Short Essay** (Each question carries 5 Marks).
3. Answer all **Short answers** (Each question carries 2 Marks)
4. Write the Question followed by Answer.
5. Write the same question numbers as they appear in this question paper.
6. Your answer should be specific to the questions asked.
7. Draw neat labelled diagrams wherever necessary.

Long Essay: Answer any One

1X10=10

1. Write a detailed account on Conjugation or Phase II reactions with suitable examples.
2. Define Anxiolytics. Explain the SAR and MAO of Phenothiazines and outline the synthesis of Chlorpromazine.

Short Essay: Answer any Four

4X5=20

3. Explain the mechanism of reversible and irreversible inhibitors with examples.
4. Explain SAR of Sympathomimetic agents
5. Explain SAR of Morphine.
6. Discuss how the solubility and partition co-efficient influence the biological activity.
7. Define and classify Non-steroidal anti-inflammatory drugs with suitable structures.
8. Outline the synthesis of Carbamazepine and Phenytoin.

Short Answers: Answer All the questions

5X2=10

9. Write a note on logp value.
10. Give the structure and uses of Dissociative anesthetics.
11. Classify Barbiturates.
12. Outline the synthesis of Methohexital sodium.
13. Classify Cholinergic receptors and give their distribution.

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B.Pharmacy IV Semester Examination – October 2020

TIME: 2 Hours

MAX.MARKS: 40

SUB: Physical Pharmaceutics

QP CODE: 11423

Specific Instructions

1. Answer One Question from **Long Essay** (Each question carries 10 Marks).
2. Answer Four Questions from **Short Essay** (Each question carries 5 Marks).
3. Answer all **Short answers** (Each question carries 2 Marks)
4. Write the Question followed by Answer.
5. Write the same question numbers as they appear in this question paper.
6. Your answer should be specific to the questions asked.
7. Draw neat labelled diagrams wherever necessary.

Long Essay: Answer any One

1X10=10

1. Define colloids. Discuss the electrical properties and kinetic properties of colloids.
2. Discuss in detail the theories of emulsion.

Short Essay: Answer any Four

4X5=20

3. With the help of neat diagram explain Andreason's pipette method to determine the particle size.
4. Define order of reaction. Explain the differential method for determination of order of reaction
5. Define Arrhenius plot and give its significance in calculation of shelf life.
6. Explain the interfacial properties of suspensions.
7. What are hydrophobic colloids? Explain any two methods of its preparation
8. Write a note on particle number.

Short Answers: Answer All the questions

5X2=10

9. Define porosity and write any two applications.
10. Define molecularity of reaction with example.
11. Define order of reaction with suitable example.
12. What do you mean by protective colloids? Mention one example for the same
13. What is Brownian Movement? Which formulations exhibit this type of movement?

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B.Pharmacy IV Semester Examination – October 2020

TIME: 2 Hours

MAX.MARKS: 40

SUB: Pharmaceutical Organic Chemistry III

QP CODE: 11421

Specific Instructions

1. Answer One Question from **Long Essay** (Each question carries 10 Marks).
2. Answer Four Questions from **Short Essay** (Each question carries 5 Marks).
3. Answer all **Short answers** (Each question carries 2 Marks)
4. Write the Question followed by Answer.
5. Write the same question numbers as they appear in this question paper.
6. Your answer should be specific to the questions asked.
7. Draw neat labelled diagrams wherever necessary.

Long Essay: Answer any One

1X10=10

1. What are geometric isomers give examples. Explain the methods to determine the configuration of geometrical isomers
2. Give the methods of synthesis and chemical reactions of Pyrrole and Furan

Short Essay: Answer any Four

4X5=20

3. Write a note on elements of symmetry with example
4. Discuss the various conformational isomers of cyclohexane
5. Write a note on Fischer-Indole synthesis
6. Write any two synthesis and reactions of Pyridine
7. Explain Beckmann's rearrangement reaction with mechanism
8. Explain the mechanism involved in Schmidt rearrangement

Short Answers: Answer All the questions

5X2=10

9. What are Meso compounds? Give example
10. Define diastereoisomers with example
11. What are optical isomers? Give examples
12. What are conformational isomers? Give examples
13. Give the structure and uses of Azepines
