

ADICHUNCHANAGIRI UNIVERSITY

Pharm.D I year Examination – October 2020

TIME: 2 Hours

MAX.MARKS: 40

SUB: Human Anatomy & Physiology I

QP CODE: 44101

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 nervous system. Explain the anatomy and functional areas of cerebrum.
2. Describe the anatomy and functions of small intestine and stomach. Add a note on absorption in small intestine.

Short Essay: Answer any Four

4X5=20

3. Describe the location, structure and functions of trachea.
4. Describe about Spermatogenesis.
5. What is ECG? Briefly explain each components of ECG.
6. Define joints. Describe the structural and functional classification of joints.
7. Mention the meninges. Write the composition and functions of cerebro spinal fluid (CSF).
8. Describe the process of urine formation.

Short Answers: Answer All the questions

5X2=10

9. Mention the phases of menstrual cycle.
10. Name the bones of the face.
11. Write the composition of lymph.
12. Write the structural differences between artery and vein.
13. What are the four basic types of human tissues?

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Pharm.D I year Examination – October 2020

TIME: 2 Hours

MAX.MARKS: 40

SUB: Pharmaceutics

QP CODE: 44102

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. Discuss about posology. Explain about the factors affecting the dose of a drug.
2. Define emulsion? Explain the methods of preparation and identification tests for emulsions.

Short Essay: Answer any Four

4X5=20

3. Write in brief about development of pharmacy profession.
4. Give a note on development of Indian Pharmacopoeia.
5. Eutectic and Explosive powders
6. Gargles and mouthwash.
7. What are surgical sutures and ligatures? Give their ideal characteristics.
8. Define the therapeutic incompatibility with examples.

Short Answers: Answer All the questions

5X2=10

9. Define "Pharmacist" and mention any two roles of Pharmacist.
10. Enlist various Pharmacopoeias.
11. Write the conversion of the following.
A. One grain B. One drop
12. Write the primary emulsion formula for fixed oils and mineral oils.
13. Write any two advantages and disadvantages of suspensions.

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TIME: 2 Hours

MAX.MARKS: 40

SUB: Pharmaceutical Organic Chemistry

QP CODE: 44103

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. a) What are alkenes? Give the rules for their nomenclature with examples.
b) Explain the addition of carbenes to alkenes.
2. Give the method of preparation and uses of the following.
a) Dimercaprol b) Saccharin sodium c) Benzyl benzoate d) Lactic acid.

Short Essay: Answer any Four

4X5=20

3. Explain the mechanism involved in
a) Cannizaro's reaction
b) Friedel-Craft's acylation reaction
4. Explain the mechanism involved in Benzoin condensation reaction and Write its applications.
5. What are Dienes? Discuss the stability of Conjugated Dienes.
6. Give any five methods of preparation of cycloalkanes.
7. What is isomerism? Classify with example. Write a note on phase transfer catalysis.
8. Write the mechanism involved in Fries rearrangement and Kolbe reactions.

Short Answers: Answer All the questions

5X2=10

9. Define Oxidation-reduction reactions with examples
10. What is Hydrogen bonding? Classify with examples
11. Rules of Aromaticity
12. Why boiling point of the o-Amino phenol is lesser than the p-Amino phenol.
13. Give the conversion of acid to ester.

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Pharm.D I year Examination – October 2020

TIME: 2 Hours

MAX.MARKS: 40

SUB: Medicinal Biochemistry

QP CODE: 44104

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. Explain TCA cycle and give its significance with energetic and inhibitors.
2. Explain the process of β -oxidation of fatty acids with energetic considering palmitic acid as example.

Short Essay: Answer any Four

4X5=20

3. Explain Glucose tolerance test (GTT) and its significance.
4. Discuss the various types of glycogen storage disorders.
5. Write a note on factors affecting enzyme activity?
6. Write a note on therapeutic and diagnostic application of enzymes?
7. Describe the double helical structure of DNA.
8. Discuss the urea cycle in detail.

Short Answers: Answer All the questions

5X2=10

9. What are isoenzymes? Give examples.
10. Write the purine and pyrimidine bases.
11. What is atherosclerosis?
12. Dye test for excretory function of kidney.
13. Write any two therapeutic uses of Enzymes?

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Pharm.D I year Examination – October 2020

TIME: 2 Hours

MAX.MARKS: 40

SUB: Pharmaceutical Inorganic Chemistry

QP CODE: 44105

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 principle involved for Volhard's and Fajan's precipitation titrations
2. Define error .Write different methods used for minimization of errors

Short Essay: Answer any Four

4X5=20

3. What are Dental products? Discuss the role of fluorides in dental carries.
4. Explain Iodometry and Iodimetry with examples.
5. What are ligands? Explain types of ligands with examples.
6. Write the principle and reactions involved in the limit test for sulphate
7. Define antacids with suitable examples. Discuss qualities of an ideal antacid.
8. What is electrolyte combination therapy? Explain ORS.

Short Answers: Answer All the questions

5X2=10

9. Methods to express concentration of solutions
10. Enumerate the different steps involved in gravimetric analysis.
11. Write the use of citric acid and ammonia in iron limit test.
12. Give the medicinal uses for Nitrous oxide and carbon dioxide.
13. Physiological role of iodine
