

ADICHUNCHANAGIRI UNIVERSITY

B.Pharmacy I Semester Examination – December 2021

TIME: 2.30 Hours

MAX.MARKS: 55

SUB: Human Anatomy & Physiology I

QP CODE: 11121

- Instructions:**
1. Answer MCQ's in a separate **OMR sheet**
 2. Your answer should be specific to the questions asked.
 3. Write the same question numbers as they appear in this question paper.
 4. Write Legibly.
 5. Draw neat labelled diagrams wherever necessary.

I. Multiple choice questions

20X1=20

II. LONG ESSAYS (Answer any Two)

2X10=20

1. Draw a neat labelled diagram of heart. Explain the cardiac cycle
2. Draw a neat labelled diagram of Neuro-muscular junction. Describe the physiology of muscle contraction
3. Discuss the composition and functions of blood. What is Rh factor incompatibility

III. SHORT ESSAYS (Answer any Seven)

7X5=35

4. Composition and functions of lymph
5. Different types of cranial nerves and their innervations
6. Structure of synovial joint and functions of synovial fluid
7. Describe the structure of eye
8. Write a short note on sympathetic nervous system
9. Functions of mitochondria and golgi apparatus
10. Difference between skeletal, smooth and cardiac muscle
11. Explain modes of cell communication
12. Structure and functions of spleen

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MAX.MARKS: 55

SUB: Pharmaceutical Analysis I

QP CODE: 11122

- Instructions:**
1. Answer MCQ's in a separate **OMR sheet**
 2. Your answer should be specific to the questions asked.
 3. Write the same question numbers as they appear in this question paper.
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I. Multiple choice questions

20X1=20

II. LONG ESSAYS (Answer any Two)

2X10=20

1. What are primary and secondary standards? Explain preparation and determination of normality of KMnO_4 (3+4+3)
2. Explain the theory of acid base titration
3. Explain the principle of precipitation titration. Differentiate the types of precipitation titrations. (5+5)

III. SHORT ESSAYS (Answer any Seven)

7X5=35

4. Write a note on types of errors.
5. Explain why non- aqueous titration are essential with examples.
6. Write a note on iodimetry with an example
7. Write the importance of masking agents with example.
8. Write the concepts of oxidation - reduction.
9. What is cerimetric method? What are its advantages?
10. Explain the construction and working of calomel electrode.
11. Explain Ilkovic equation and its importance.
12. Write a note on conductivity cell.

B. Pharmacy I Semester Examination – December 2021

TIME: 2.30 Hours

MAX.MARKS: 55

SUB: Pharmaceutics I

QP CODE: 11123

Instructions: 1. Answer MCQ's in a separate **OMR sheet**

2. Your answer should be specific to the questions asked.

3. Write the same question numbers as they appear in this question paper.

4. Write Legibly.

5. Draw neat labelled diagrams wherever necessary.

I. Multiple choice questions

20X1=20

II. LONG ESSAYS (Answer any Two)

2X10=20

1. Define the term 'Prescription'. Discuss the various part of a prescription and give their significance. Explain in brief the steps involving in handling of prescription
2. What are suppositories? Enlist the advantages of suppositories. Briefly describe about various types of bases used in the preparation of suppositories.
3. What are suspensions? Write the qualities of an ideal suspension. Differentiate between flocculated and non-flocculated systems.

III. SHORT ESSAYS (Answer any Seven)

7X5=35

4. Define posology. Write down the various formula used for to calculating the child doses.
5. Define the term powder. Classify different types of powders, briefly write about dusting powder.
6. Explain the principle and preparation of simple syrup I.P
7. Define dosages form, classify them with example.
8. Explain in brief about various types of identification tests for emulsion.
9. Explain the therapeutic incompatibility with suitable examples.
10. A) Find the concentration of NaCl required to make a 1.0 % solution of cocaine Hcl isosmotic with blood plasma. Freezing point: 1, %w/w solution Cocaine Hcl = - 0.09 °C: 1%NaCl = -0.576°C.
B) Find the strength of 76 % v/v alcohol in terms of proof spirit.
11. Briefly explain the various methods of preparation of ointments.
12. Write the formulation and principle of calamine lotion I.P.

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MAX.MARKS: 55

SUB: Pharmaceutical Inorganic Chemistry

QP CODE: 11124

- Instructions:**
1. Answer MCQ's in a separate **OMR sheet**
 2. Your answer should be specific to the questions asked.
 3. Write the same question numbers as they appear in this question paper.
 4. Write Legibly.
 5. Draw neat labelled diagrams wherever necessary.

I. Multiple choice questions

20X1=20

II. LONG ESSAYS (Answer any Two)

2X10=20

1. Explain the various sources of impurities in Pharmaceutical substances with suitable example.
2. Define antacid. Give their classification. Enumerate the ideal properties of antacids. Discuss the preparation, assay and uses of NaHCO_3 . Sodium Bicarbonate
3. Write a note on physiological acid-base balance. Give the preparation and principle involved in the assay of NaCl

III. SHORT ESSAYS (Answer any Seven)

7X5=35

4. What are cathartics? Write the preparation and uses of MgSO_4
5. Explain the construction and working of Geiger-Muller Counter
6. Write the preparation and assay of H_2O_2
7. Write a note on iodine and its preparation
8. What are expectorants? Write the preparation of KI
9. What are antidotes? Classify them with example. Write a note on activated charcoal
10. Write the principle involved in the limit test for iron
11. Write the principle and procedure involved in the limit test for Sulphate
12. What are astringents? Write the preparation of potash alum
