QP Code: 121006 **Reg. No……**

First Semester B. Pharm Degree Regular/Supplementary Examinations April 2025
Human Anatomy and Physiology I
(2017 and 2024 Scheme)

Time: 3 Hours **Max. Marks: 75**

- ***Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space***
- ***Answer all parts of a single question together • Leave sufficient space between answers***
- ***Draw table/diagrams/flow charts wherever necessary***

Essay **(2x10=20)**

1. Describe the various events of cardiac cycle with the help of diagram
2. Explain the general principles of cell communication. Describe the intracellular signaling pathway activation by extracellular signal molecule

Short Notes **(7x5=35)**

3. What are cranial nerves and give its functions
4. Describe the structure and functions of ciliated simple columnar epithelium and pseudo stratified columnar epithelium
5. Formation, circulation and composition of lymph
6. Rh factor and ABO blood group
7. Describe the cell division by mitosis process.
8. Explain the various types of movements at the joint.
9. The structure and the functions of spleen

Answer Briefly **(10x2=20)**

10. Define blood pressure and mention its normal value
11. Heart sounds
12. Types of muscular tissue
13. Electrocardiogram
14. Functions of reticulo-endothelial system
15. Disorders of joints
16. Hemostasis
17. Bones of thoracic cavity
18. Functions of skin
19. What is sickle cell anemia

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CORRECTION / NO-CORRECTION FILE

QPCODE: 121006 Dated: 21-04-2025

Question No.6

Modified as "Rh factor and ABO blood grouping."

Question No.8

Modified as "Explain various types of joint movements."

Question No.15

Replaced with "Disorders of Vision."

Corrections/Modifications/Replacement of Questions if any shall be made available to all students. Take the print out of the Correction File in such cases and distribute to all students.

(Sd/-)

CONTROLLER OF EXAMINATIONS

QP Code: 122006 **Reg. No……**

First Semester B. Pharm Degree Regular/Supplementary Examinations April 2025
Pharmaceutical Analysis - I
(2017 and 2024 Scheme)

Time: 3 Hours **Max. Marks: 75**

- ***Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space***
- ***Answer all parts of a single question together • Leave sufficient space between answers***
- ***Draw table/diagrams/flow charts wherever necessary***

Essay **(2x10=20)**

1. Write the principle involved in non-aqueous acidimetry. Write in detail about the assay of Ephedrine hydrochloride by non aqueous titration
2. Enlist the types of redox titrations. Write the difference between Iodometry and Iodimetry titrations.

Short Notes **(7x5=35)**

3. Write the construction and working principle of rotating platinum electrode.
4. Concepts of oxidation and reduction
5. Write short note on estimation of barium sulphate by gravimetry analysis
6. Detail the types of solvents used in non aqueous titrations
7. Difference between volhard's and modified volhard's method
8. Classify errors
9. Explain the standardization procedure for sodium hydroxide

Answer Briefly **(10x2=20)**

10. Define primary standard
11. Define significant figure
12. Curves associated to strong and weak acid titration against strong alkali
13. Principle involved in Diazotisation titration
14. Name the titrant and indicators used in complexometry
15. What is Lewis theory
16. Molar conductivity
17. Fajans method
18. Define normality
19. Define electro motive force

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QP Code: 123006 **Reg. No……**

First Semester B. Pharm Degree Regular/Supplementary Examinations April 2025
Pharmaceutics- I
(2017 and 2024 Scheme)

Time: 3 Hours **Max. Marks: 75**

- ***Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space***
- ***Answer all parts of a single question together • Leave sufficient space between answers***
- ***Draw table/diagrams/flow charts wherever necessary***

Essay **(2x10=20)**

1. Write the excipients used in the preparation of semi solid dosage form. Add a brief note on Cold cream
2. Define and classify suspension. Give its advantages and disadvantages. Explain the preparation of suspension containing diffusible and indiffusible solids

Short Notes **(7x5=35)**

3. Define monophasic dosage forms. Write a note on the different methods for preparation of syrups
4. What is suppository. Write any one method for the preparation of suppositories
5. What are the liquid dosage forms. Add a note on solubility enhancement techniques
6. Explain the steps involved in handling of prescription
7. Discuss in brief about therapeutic incompatibility
8. Explain the preparation of ointments by chemical reaction method
9. Write a note on medicated and surgical dusting powders

Answer Briefly **(10x2=20)**

10. Define posology
11. Write the organoleptic agents used in liquid dosage forms
12. Glycerogelatin suppositories
13. Write any two advantages and disadvantages of powders
14. Write a note on cocoa butter as suppository base
15. Calculate the amount of 20% v/v alcohol required to produce one litre of 15% v/v alcohol
16. Give examples of various solutions used in oral cavity
17. Eutectic powders with remedies for dispensing
18. Write the ratio of oil, water and gum for preparing primary emulsion containing different types of oils
19. Classify enemas with examples

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QP Code: 124006 **Reg. No……**

First Semester B. Pharm Degree Regular/Supplementary Examinations April 2025

Pharmaceutical Inorganic Chemistry
(2017 and 2024 Scheme)

Time: 3 Hours **Max. Marks: 75**

- ***Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space***
- ***Answer all parts of a single question together • Leave sufficient space between answers***
- ***Draw table/diagrams/flow charts wherever necessary***

Essay **(2x10=20)**

1. Explain the principle with reaction involved in the limit test for Iron and Heavy metals.
2. Define expectorants and haematinics. Describe the method of preparation, principle involved in the assay of copper sulphate and ferrous sulphate.

Short Notes **(7x5=35)**

3. Write the method of preparation and principle involved in the assay of Calcium gluconate.
4. Enlist the properties of alpha, beta and gamma rays.
5. Write a note on Oral Rehydration Salt.
6. Write the method of preparation and principle involved in the assay of sodium bicarbonate.
7. Write the principle involved in the limit test for arsenic.
8. Define and classify antacids with examples. Add a note on combination antacid preparations.
9. Write the method of preparation and principle involved in the assay of Hydrogen peroxide.

Answer Briefly **(10x2=20)**

10. Define dentifrices with examples.
11. Give the chemical formula and uses of sodium orthophosphate.
12. Define antidotes with examples.
13. Give principle behind limit test for sulphates.
14. Define emetics and astringent with one example each.
15. Write the reactions involved in the assay of ammonium chloride.
16. Enlist the various sources of impurities.
17. Uses of iodine and its preparations.
18. List the methods of adjusting isotonicity.
19. Half life of radioactive isotope.

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