

QP Code: 121006

Reg. No.....

**First Semester B. Pharm Degree Supplementary Examinations
August 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. Explain the structure and functions of Skin
2. Draw a labelled diagram of ear and explain its function

Short Notes

(7x5=35)

3. Describe the cardiac conducting system
4. Explain physiology of olfaction and the olfactory pathway
5. Describe the structure of bone
6. Forms of intra-cellular signaling
7. Structure and functions of epithelial tissue
8. Explain the structure and functions of lymph node
9. Structure and functions of sympathetic nervous system

Answer Briefly

(10x2=20)

10. Anemia
11. Synovial fluid
12. Active transport in cell membrane
13. Rh factor
14. List out cranial nerves
15. Ball and socket joint
16. Muscle tissue
17. Facial bones
18. Functions of the skull
19. Haemophilia

QP Code: 122006

Reg. No.....

**First Semester B. Pharm Degree Supplementary Examinations
August 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. List out different types of redox titrations. Explain in detail about assay of Ferrous sulphate by cerimetry
2. Classify complexometric titrations. Write about various metal ion indicators

Short Notes

(7x5=35)

3. Write the principle and procedure for Mohr's method
4. Write note on principles involved in the estimation of sodium benzoate
5. Define error and write the comment on systematic error
6. Write the procedure for the preparation and standardization of sodium thio sulphate ($\text{Na}_2\text{S}_2\text{O}_3$)
7. Write in detail about theories of acid base indicators
8. Draw and write the working principles of calomel electrode
9. Principle and applications of Diazotisation titration

Answer Briefly

(10x2=20)

10. Define co-precipitation
11. Comment on strong acid Vs strong base curve
12. Application of polarography
13. Indicators used in non aqueous titration
14. Role of magnesium sulphate in calcium gluconate assay by complexometry
15. Masking reagents
16. Define accuracy
17. Define resistance
18. Explain the advantages and disadvantages of glass electrode
19. Define molarity

CORRECTION / NO-CORRECTION FILE
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QPCODE: 122006

Dated: 20-08-2025

Question No.11

Modified as "Comment on strong acid Vs strong base titration curve."

Question No.15

Corrected as "Masking reagents."

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: 123006

Reg. No.....

**First Semester B. Pharm Degree Supplementary Examinations
August 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. Define incompatibility. Explain the different types of physical incompatibility with the help of examples
2. Define and classify suspension. Explain the stability problems associated with suspension

Short Notes

(7x5=35)

3. Define prescription. Write the parts of prescription
4. Explain the principle and procedure in preparation of effervescent granules
5. Define paste. Explain the method of preparation of paste
6. Write a note on formulation of nasal drops
7. Define biphasic dosage forms. Explain the methods used to prepare emulsions.
8. Write a note on historical development of profession of pharmacy education in India
9. Find out the amount of each of 90%, 60%, 30% v/v alcohol and water required to produce 500ml of 50% v/v alcohol

Answer Briefly

(10x2=20)

10. Differentiate between liniment and lotion
11. Name the additives used in the formulation of mouthwash with one example for each
12. Write any two formulas to calculate child dose
13. Name the different tests for identification of types of emulsion
14. Define enema. Give its composition
15. Define efflorescent powders
16. Displacement value and its significance
17. Convert 60% v/v alcohol to proof spirit
18. Name four coloring agents
19. Define the term posology

QP Code: 124006

Reg. No.....

**First Semester B. Pharm Degree Supplementary Examinations
August 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 principles involved and the apparatus used in the limit test of Arsenic
2. What are Antacids. Classify with examples. Describe the method of preparation and principle in the assay of Sodium bicarbonate

Short Notes

(7x5=35)

3. Write the principle involved in the limit test of iron
4. Write a note on ORS
5. What are antimicrobial agents. Give the mechanism of action
6. Give the method of preparation and uses of ferrous sulphate & ammonium chloride
7. Write a note on physiological acid base balance
8. Write the role of buffers in pharmaceutical systems
9. Explain five sources of impurities with examples

Answer Briefly

(10x2=20)

10. Give the reaction for the assay of copper sulphate
11. Define dentifrices. Discuss the role of fluorides in Dental caries
12. What are antidotes. Classify them with examples
13. Define haematinics. Give two examples
14. Give the composition and uses of barium sulphate reagent
15. Define emetics and expectorants with an example
16. Write the buffer equation
17. What is the modification made in limit test for potassium permanganate
18. Mention the storage conditions of radioactive substances
19. Discuss in brief the history of pharmacopoeia
