

QP Code: 121006

Reg. No.....

First Semester B.Pharm Degree Regular/Supplementary Examinations
February 2020

Human Anatomy and Physiology
(2017 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 anatomy of ear and explain the mechanism of hearing
2. Explain the conduction system of heart with a neat labelled diagram

Short Notes

(7x5=35)

3. Formation and fate of hemoglobin
4. Explain about spleen
5. Write about sympathetic nervous system
6. Difference between arteries and veins
7. Write about muscular tissue
8. Classify joints, explain about types of synovial joints
9. Structure and functions of connective tissue

Answer Briefly

(10x2=20)

10. Write the functions of cell
11. Write the pulmonary circulation
12. Write about taste buds
13. Write about nervous tissue
14. Define polycythemia and sickle cell anaemia
15. Write the paracrine intracellular signaling
16. Name the bones of cranium
17. Define articulation and arthrology
18. Write the anatomy of spinal nerve
19. Functions of skin

QP Code: 122006

Reg. No.....

**First Semester B.Pharm Degree Regular/Supplementary Examinations
February 2020**

Pharmaceutical Analysis - I

(2017 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. What is the principle of potentiometric titration. With a neat labelled diagram explain any two reference electrodes.
2. Explain methods of precipitation titrations

Short Notes

(7x5=35)

3. Write on expressions of concentrations
4. Explain iodimetric titrations
5. Give details on Ilkovic equation
6. Metal ion indicators
7. Give Brief account on diazotization titrations
8. Explain estimation of sodium benzoate and ephedrine hydrochloride
9. Write on accuracy, precision and significant figure

Answer Briefly

(10x2=20)

10. Solvents in non-aqueous titrations
11. Primary standards
12. Use of demasking agents
13. Dropping mercury electrode
14. Application of potassium iodate in titration
15. Molar conductivity
16. Residual current
17. Types of errors
18. Universal indicator
19. Cerimetry

QP Code: 123006

Reg. No.....

**First Semester B.Pharm Degree Regular/Supplementary Examinations
February 2020**

**Pharmaceutics- I
(2017 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 prescription. Discuss the various parts and handling of prescriptions.
2. Describe the preparation and identification methods of emulsion. Summarize the factors influencing the stability of emulsion.

Short Notes

(7x5=35)

3. Outline the historical background and development of Pharmacy
4. How much amount of water should be mixed with 6000 ml of 40% (v/v) alcohol to make 20% (v/v) alcohol
5. Flocculated and deflocculated suspension
6. What is throat paint
7. Suspending agents
8. Brief the methods for the preparation of suppositories
9. Briefly write the preparation of gels

Answer Briefly

(10x2=20)

10. Define pharmacopoeia, and list out the pharmacopoeias being referred extensively
11. Excipients used in the formulation of liquid dosage forms
12. Outline the formulae by which doses are calculated depending on age
13. Proof spirit
14. Classify powders with examples
15. Eutectic mixtures
16. What is Liniment
17. Fried's formula
18. What is therapeutic incompatibility
19. Define gels, and mention different gelling agents

QP Code: 124006

Reg. No.....

**First Semester B.Pharm Degree Regular/Supplementary Examinations
February 2020**

**Pharmaceutical Inorganic Chemistry
(2017 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 principle and procedure involved in the limit test for arsenic with neat labeled diagram of Gutzeit's apparatus.
2. List the ideal properties of antacids. Explain the preparation, assay and medicinal uses of sodium bicarbonate.

Short Notes

(7x5=35)

3. Give the principle of limit test for heavy metals.
4. What are radio isotopes. Mention their pharmaceutical applications.
5. Describe the role of fluoride in the treatment of dental caries.
6. The method of preparation and assay of chlorinated lime.
7. Explain the sources of impurities in pharmaceutical preparations.
8. What are haematinics. Give the method of preparation and assay of anyone hematinic.
9. Describe the various electrolytes used in replacement therapy.

Answer Briefly

(10x2=20)

10. Define astringent with two examples.
11. The composition and uses of ORS.
12. Explain the role of nitric acid in the limit test for chloride.
13. What are expectorants
14. Define antidotes with examples.
15. What are anti-microbials. Write about their importance.
16. Any four official preparations of sodium with uses.
17. Give the medicinal uses of kaolin and zinc sulphate.
18. What are the reagents used in the limit for iron.
19. The chemical reactions involved in the assay of calcium gluconate.