

QP Code: 121006

Reg. No.....

**First Semester B. Pharm Degree Supplementary Examinations
August 2024**

**Human Anatomy and Physiology 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. Explain the processes of blood clotting
2. Describe the mechanisms that regulate blood pressure

Short Notes

(7x5=35)

3. List out the bones of the axial and appendicular skeleton
4. Write a note on Electrocardiogram (ECG)
5. Components of plasma and the functions of plasma proteins
6. Discuss the different heart sounds
7. Discuss about the organs of lymphatic system
8. Explain physiology of gustation and the gustatory pathway
9. Discuss types of synovial joint

Answer Briefly

(10x2=20)

10. Haemophilia
11. Erythroblastosis fetalis
12. Types of bone
13. Sweat glands
14. Nervous tissue
15. Types of blood cells
16. Internal ear
17. Retina
18. Cardiac cycle
19. What is Rh factor. Give its significance

QP Code: 122006

Reg. No.....

**First Semester B. Pharm Degree Supplementary Examinations
August 2024**

**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. Construction and working principle of Dropping Mercury Electrode
2. Define conductometry and explain about various conductometric titrations

Short Notes

(7x5=35)

3. Different techniques of analysis
4. Principles involved in the complexometric titrations
5. Define and explain the concept of significant figures
6. What is Ilkovic equation also write its significance
7. Describe the constructions and working principles of standard Hydrogen Electrode
8. Write the steps involved in the gravimetry analysis
9. Explain Mohr's method in detail

Answer Briefly

(10x2=20)

10. Define diffusion current
11. Define oxidizing agents
12. Conductivity cell
13. Types of non aqueous solvents
14. Define half wave potential
15. What is benzenoid theory
16. What is diazotization titration
17. What are some sources of errors in titration
18. Define pH
19. What is Demasking reagents

QP Code: 123006

Reg. No.....

**First Semester B. Pharm Degree Supplementary Examinations
August 2024**

**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 dosage form. Give the different classifications of dosage forms. Explain in detail about prescription and parts of prescription.
2. Define powders. Classify them. Write a detailed note on hygroscopic substances and eutectic mixtures.

Short Notes

(7x5=35)

3. Handling of the prescription.
4. What are the various factors affecting posology.
5. Advantages and disadvantages of the liquid dosage form.
6. Imperial and metric systems.
7. Write different methods for preparation of emulsion.
8. Write briefly about formulation of pharmaceutical gels.
9. Explain chemical incompatibility with an example.

Answer Briefly

(10x2=20)

10. What is displacement value.
11. Advantages of suppositories.
12. List the factors affecting skin penetration of drugs.
13. Different types of creams.
14. Classify ointment bases with examples.
15. Evaluation of semi-solid dosage forms.
16. Classification of suspension.
17. Define co-solvency.
18. Composition of non staining Iodine ointment BPC.
19. Two equations for calculating pediatric dose.

QP Code: 124006

Reg. No.....

**First Semester B. Pharm Degree Supplementary Examinations
August 2024**

**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. Explain the various sources of impurities present in pharmaceutical substances with example
2. Write the classification and functions of physiological ions. Add a note on electrolytes used in replacement therapy

Short Notes

(7x5=35)

3. Give the method of preparation and assay principle of chlorinated lime
4. Write the principle involved in the limit test of sulphates
5. Outline the history of Indian Pharmacopoeia
6. Give the method of preparation and uses of ammonium chloride
7. What are antidotes. Classify them with examples
8. Give the principle and reaction involved in the assay of copper sulphate
9. Explain the construction and working of gutzeit's apparatus

Answer Briefly

(10x2=20)

10. Two properties of alpha, beta and gamma rays
11. Discuss the role of fluorides in Dental caries
12. Define cathartics. Give two examples
13. Define haematinics. Give two examples
14. Give reason: Thioglycolic acid and citric acid are used in the limit test of iron
15. Define astringents and expectorant
16. Define acids and bases
17. What is the modification made in limit test for potassium permanganate
18. Mention the pharmaceutical applications of radioactive substances
19. Discuss the pharmaceutical importance of bentonite
