QP Code: 121006 **Reg. No……**

First Semester B. Pharm Degree Supplementary Examinations
October 2023
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. Discuss the structure of the outer, middle and inner parts of the ear.
2. Explain in detail about composition and functions of blood.

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

3. Discuss with neat labeled diagram the structure of cell membrane.
4. Differentiate between skeletal muscle and cardiac muscle tissue.
5. Explain the structure and functions of lymph node.
6. Discuss the significance of somatic and reproductive cell division.
7. Name the bone of skull and function of skull.
8. Differentiate between sympathetic and parasympathetic nervous system.
9. Hypertension.

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

10. Significance of ECG.
11. Define haemophilia and leukemia.
12. Name the bones of upper limb.
13. Define anatomy and physiology.
14. Functions of nucleus.
15. Mention the parts of eye.
16. Functions of skin.
17. Myocardial infarction
18. Mention physiological properties of skeletal muscle.
19. Classify nervous system.

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QP Code: 122006 **Reg. No……**

First Semester B. Pharm Degree Supplementary Examinations
October 2023

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 are the different methods of determination of chloride by precipitation reactions. Explain
2. Explain the principle of polarography. What are the different kinds of currents encountered using a typical polarogram.

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

3. Explain masking and demasking agents.
4. What are the different non- aqueous solvents. Explain.
5. Describe the construction and working of a glass electrode.
6. Explain with an example how a mixture of three metal ions can be individually determined.
7. Explain Ostwald's theory of indicators.
8. Discuss the use of dichromate salts in redox titrations.
9. Explain the assay of sodium benzoate by non-aqueous method.

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

10. How will you prepare a one molar solution (1M) of hydrochloric acid.
11. Distinguish determinate errors from indeterminate errors.
12. Distinguish iodometric titrations from iodimetric titrations.
13. What should be the characteristics of a substance to be used as a primary standard.
14. How will you standardize 0.1 M sodium thiosulphate solution.
15. What do you understand by the term significant figures.
16. How is a solution of ceric ammonium sulphate standardized.
17. Preparation of 0.1 M potassium permanganate solution.
18. What are redox titrations. Give one example.
19. What are external indicators. Give one example.

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QP Code: 123006 **Reg. No……**

First Semester B. Pharm Degree Supplementary Examinations October 2023

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. Explain in detail the parts of a prescription.
2. Classify pharmaceutical incompatibilities. Give a detailed account of physical incompatibility.

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

3. Give an account of the various pharmacopoeias.
4. Explain the factors affecting posology.
5. Differentiate between liniment and lotion.
6. The identification tests for the type of emulsions.
7. Explain the types of suppository bases.
8. Emulsifying agents.
9. Explain the evaluation of semi-solid dosage forms.

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

10. Define throat paints.
11. Define isotonic solution.
12. Give two excipients used in the formulation of liquid dosage forms.
13. Explain dusting powder.
14. Name four suspending agents.
15. Define flocculated suspension and give examples.
16. List out the advantages of cocca butter.
17. The methods of preparation of ointments.
18. Define gels and give examples.
19. Differentiate between ointment and paste.

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QP Code: 124006 **Reg. No……**

First Semester B. Pharm Degree Supplementary Examinations October 2023

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. (a) Classify antimicrobials with examples.
   (b) Write the preparation, assay and use of chlorinated lime.
2. Describe in detail about buffered isotonic solutions, methods of adjusting tonicity and measurement of tonicity.

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

3. Write the preparation, assay and use of ammonium chloride.
4. What are emetics. Give the preparation, properties and use of copper sulphate.
5. Write the principle involved in the limit test of sulphates.
6. What are antidotes. Give the preparation, properties and use of sodium thio sulphate.
7. Define the terms: • antacids • expectorants • cathartics • astringents • disinfectants.
8. What are haematinics. Write the method of preparation and assay and uses of ferrous sulphate.
9. Write about the preparation, assay and use of calcium gluconate.

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

10. Define dentifrice with example.
11. Give the principle involved in the limit test of chloride.
12. Composition of ORS.
13. Ideal properties of antacids.
14. Define pharmacopoeia.
15. Give the assay of hydrogen peroxide.
16. Properties and uses of sodium chloride.
17. Properties of Alpha (α) radiation.
18. Define buffer capacity.
19. Define half-life period.

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