QP Code: 121006 **Reg. No…….**

First Semester B.Pharm Degree Regular/Supplementary Examinations
October 2021
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. Classify cranial nerves, explain in detail about innervations and functions
2. Explain about the physiology of skeletal and smooth muscle contraction

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

3. Explain mechanism of transport across cell membrane
4. Anatomy and functions of skin
5. Explain the regulation of B.P
6. Explain about lymph node
7. Mechanism of coagulation
8. Explain parasympathetic nervous system
9. Describe the anatomy and functions of eye

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

10. Explain the structure and functions of arteries
11. Significance of ESR
12. Nasal septum
13. Explain the functions of spinal nerves
14. Importance of blood grouping
15. Explain the division of skeletal system
16. Connective tissue
17. Explain the steps in endocrine intracellular signaling
18. Principles of cell communication
19. Define homeostasis, thrombocytopenia

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QP Code: 122006 **Reg. No…….**

First Semester B.Pharm Degree Regular/Supplementary Examinations October 2021

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. Write on principle, electrodes and the applications of polarographic titration
2. Explain acidimetry and alkalimetry titration by Non-aqueous methods

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

3. Applications of potentiometric titrations
4. Assay methods of metal ions
5. Preparation and standardisation of sodium thiosulphate
6. Volhard's method with suitable example
7. Explain indicator electrodes
8. Explain gravimetric method of estimation of barium sulphate
9. With example write on diazotization titration.

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

10. Source of errors
11. Example of redox titration
12. Secondary standards
13. Explain Co-precipitation
14. Application of conductometric titration
15. Electrochemical cell
16. Nernst equation
17. Masking agents
18. Conductivity cell
19. Significant figures

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QP Code: 123006 **Reg. No…….**

First Semester B.Pharm Degree Regular/Supplementary Examination October 2021

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 incompatibility. Explain the chemical and physical incompatibility with examples.
2. Define suspension. Explain the different methods of formulation, stability and evaluation of suspension.

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

3. Indian pharmacopoeia
4. Errors in prescription
5. Hygroscopic, efflorescent and deliquescent powders
6. Define and classify monophasic liquid dosage forms
7. Explain the advantages and disadvantages of suppositories
8. Differentiate lotions and liniments
9. Outline the factors affecting the dermal penetration of drugs

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

10. Scope of pharmacy
11. Nasal drops
12. Suspending agent
13. Dusting powder
14. Isotonic solutions
15. Displacement value
16. Paste
17. Enema
18. Types of suppositories
19. List out the identification tests for emulsion

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QP Code: 124006 **Reg. No…….**

First Semester B.Pharm Degree Regular/Supplementary Examinations October 2021

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. Discuss the method of preparation, assay properties and uses of sodium bicarbonate.
2. Describe the principle involved in the limit test of arsenic with a neat labeled diagram.

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

3. Explain the role of electrolytes in acid base therapy.
4. Discuss the diagnostic and pharmaceutical applications of radio isotopes.
5. Iodine and its preparations
6. Describe the method of preparation and uses of milk of magnesia.
7. With reactions, explain the principle involved in the assay of ammonium chloride
8. Outline the applications of buffers in pharmaceutical systems.
9. Illustrate the role of fluoride in the treatment of dental caries.

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

10. Define radioactivity and half life.
11. What are astringents. Write the chemical formula of any two.
12. Name two examples of expectorant.
13. Explain the molecular formula of calcium gluconate and boric acid.
14. Define antimicrobials. Give the molecular formula of chlorinated lime.
15. Explain the chemical formula and uses of magnesium sulphate and sodium thiosulphate.
16. Mention the uses of copper sulphate and sodium nitrite.
17. Why dilute nitric acid is added in the limit test of chloride.
18. How sodium iodide I_{131} is stored.
19. What are the limit tests. Give an example for inorganic impurity.

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