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First Year B. Pharmacy

**BP101T : HUMAN ANATOMY AND PHYSIOLOGY - I**  
**(2019 Credit Pattern) (Semester - I)**

Time : 3 Hours]

[Max. Marks : 75

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Neat labeled diagrams must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.

Q1) Answer the following (Any 5)

[15]

- a) Distinguish between artery and vein.
- b) What are the functions of red blood cells.
- c) Define Sagittal & Coronal plane.
- d) Mention the functions of ribosomes.
- e) Draw a well labeled diagram of Cell.
- f) Classify different mechanisms of transport across cell membrane.
- g) What is Catabolism and Anabolism?

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Q2) Answer the following (Any 2)

[20]

- a) Draw a neat labeled diagram of eye. Explain in detail physiology of vision.
- b) Describe the outflow and functions of autonomic nervous system with special reference to parasympathetic nervous system.
- c) Classify Skeletal system & discuss about the structure of typical vertebra. Add an account on vertebral column.
- d) Define and explain in detail cell division. Differentiate between Mitosis and Meiosis.

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Q.3) Answer the following (Any 8).

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- a) Discuss the cardiac disorders
- b) Discuss the rennin angiotensin system.
- c) Write a note on cardiac cycle.
- d) Elaborate on origin and functions of spinal nerves.
- e) Write about the structure and function of Plasma Membrane.
- f) Discuss in detail process of blood coagulation.
- g) Explain the structure, types and functions of lymph nodes.
- h) Classify connective tissue. Describe the cartilage connective tissue.
- i) Define and classify joints. Write a note on synovial joints with its labeled diagram.
- j) Write a note on Erythropoiesis.

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**First Year B. Pharmacy**  
**BP102T : PHARMACEUTICAL ANALYSIS - I**  
**(2019 Pattern) (Semester - I)**

Time : 3 Hours]

[Max. Marks : 75

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.

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**Q1)** Objective types Question (Answer any 5 out of 7) [5×3=15]

- a) Explain Concepts of oxidation and reduction in the redox titration.
- b) Give metal ion indicators with example. <https://pharmacyindia.co.in/>
- c) Explain any one neutralization curve.
- d) What are different techniques used in pharmaceutical analysis.
- e) Define primary standard. Give example. <https://pharmacyindia.co.in/>
- f) Define chelating agent, chelate and chelation.
- g) Explain Conductivity Cell.

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**Q2)** Long answer (Answer any 2 out of 4) [2×10=20]

- a) Explain the methods to determine end point of potentiometric titration and its applications. <https://pharmacyindia.co.in/>
- b) Explain the term errors. Describe types of errors and methods of minimizing errors.
- c) Explain the Methods of expressing concentration in the pharmaceutical solution and application of pharmaceutical analysis.
- d) Explain Mohr's and Volhard's, method and application of Precipitation titration. <https://pharmacyindia.co.in/>

Q3) Short answer (Answer any 8 out of 10)

[8×5]

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- a) Explain masking and demasking reagents.
- b) Explain the steps involved in gravimetric analysis.
- c) Note on preparation and standardization of 0.1 N NaOH.  
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- d) Explain principle, advantages and disadvantages of ceriometry.
- e) Explain the construction and working of dropping mercury electrode.
- f) Explain acidimetry and alkalimetry titration in non-aqueous titration.
- g) Explain co-precipitation and post precipitation.  
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- h) Differentiate between iodimetry and iodometry.  
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- i) Explain theories of acid base indicator.
- j) Give details estimation of Sodium Chloride I.P.

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First Year B.Pharmacy

BP 103T : PHARMACEUTICS - I

(2019 Pattern) (Semester - I)

Time : 3 Hours]

[Max. Marks : 75

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Neat diagram must be drawn wherever necessary.
- 3) Figures to the right indicate full marks.

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1) Attempt any five out of seven of the following.

[15]

- a) Define
  - i) Mouthwash
  - ii) Insufflations
  - iii) Poultice
- b) Give the qualities of a good suspension.
- c) List out various steps in handling of prescription.
- d) Mention the difference between Lotion and Liniment.
- e) Write about calibration of suppository mould.
- f) Compare cream and ointment.
- g) Give test for identification of emulsion.

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2) Answer any two out of four of the following.

[20]

- a) Define semisolids. Write about different ointment bases.
- b) Write a note on
  - i) Displacement value
  - ii) Types and Parts of Prescription
- c) Define Posology. Explain factors affecting dose of drug.
- d) Define and classify emulsions. Explain in detail stability problems of emulsions and methods to overcome the same.

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Q3) Answer in brief on any eight of the following.

- a) Write a note on hygroscopic and deliquescent powders.
- b) Calculate the volume of each of 90%, 60%, 30% of alcohol and water required to produce 500 ml of 50% alcohol.
- c) Write a note on history of pharmacy profession.
- d) Write a note on chemical incompatibility.
- e) Discuss formulation aspects for Elixir and Linctus.
- f) Write about evaluation of semisolid dosage forms.
- g) Write a note on physical incompatibility.
- h) Discuss different types of suspending agents used to stabilize suspensions.
- i) Write a note on Gels.
- j) What is the need for dosage form? Classify dosage forms on the basis of site of administration.

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Total No. of Questions : 31

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First Year B.Pharmacy

**BP104T : PHARMACEUTICAL INORGANIC CHEMISTRY  
(2019 Pattern) (Semester - I)**

Time : 3 Hours]

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[Max. Marks : 75

Instructions to the candidates:

- 1) All questions are compulsory.
- 2) Figures to right indicate full marks.
- 3) Draw neat diagrams and structures wherever necessary.

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Q1) Attempt any five out of seven.

[5×3=15]

- a) Explain Acidifiers.
- b) Classify buffers. Give examples of buffers in pharmaceutical systems.
- c) Explain the assay of Ammonium chloride.
- d) What are dental products?
- e) Give importance of antacid combinations. Give the preparation, identification tests and medicinal uses of Aluminum hydroxide gel.
- f) Explain in brief about iodine and its preparations
- g) What are the Ideal properties of antacids

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Q2) Attempt any two out of four.

[2×10=20]

- a) What are limit test? Explain limit test for Lead and Sulphate.
- b) Define antimicrobial agents. Give their classification and mechanism. Add a note on Hydrogen peroxide.
- c) Give the preparation, identification tests, assay and medicinal uses of
  - i) Sodium chloride
  - ii) Calcium gluconate
- d) What is radioactivity? Explain methods for the measurement of radioactivity. Give Storage conditions, precautions & pharmaceutical applications of radioactive substances.

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Q3) Attempt any eight out of ten.

- a) Give the preparation, identification tests, assay and medicinal uses of Chlorinated lime. [8×5]
- b) Explain expectorants with example.
- c) Give calculations and methods of adjusting isotonicity.
- d) Give functions of major extracellular cations and anions.
- e) Give the preparation, identification tests, assay and medicinal uses of Sodium Bicarbonate.
- f) Describe about Protectives and Adsorbents.
- g) Describe Astringents with example.
- h) State the official control test for water.
- i) Discuss Haematinics with example.
- j) Write in detail about Cathartics.

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