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**F.Y. B.Pharmacy**

**BP101 T : HUMAN ANATOMY & PHYSIOLOGY-I**

**(2019 Credit Pattern) (Semester-I)**

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*Time : 3 Hours]*

*[Max. Marks : 75*

*Instructions to the candidates:*

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

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**Q1)** Answer the following (any 5)

**[15]**

- a) Define the terms- cardiac output, blood pressure and stroke volume.
- b) What is electrocardiogram. Mention its significance.
- c) Mention the functions of mitochondria.
- d) Define the directional terms with example:
  - i) Medial and lateral
  - ii) Deep and superficial
- e) Classify different mechanisms of transport across cell membrane.
- f) Write important features of muscle tissue.
- g) Discuss about reticuloendothelial system.

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**Q2)** Answer the following (any 2)

**[20]**

- a) Draw a neat labeled diagram of heart. Explain physiology of cardiac blood circulation.
- b) Describe the outflow and functions of autonomic nervous system with special reference to sympathetic nervous system.
- c) Define and classify tissue. Discuss in detail epithelial tissue.
- d) Describe structure and functions and formation of erythrocytes. Add an account on hemoglobin.

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Q3) Answer the following (8) [40]

- a) What is blood pressure. Explain role of kidney in blood pressure regulation. <https://pharmacyindia.co.in/>
- b) Discuss the physiology of vision.
- c) Elaborate on spinal and cranial nerves.
- d) Give an account on blood vessels.
- e) Describe the structure and functions of skin. <https://pharmacyindia.co.in/>
- f) Explain the physiology of muscle contraction.
- g) Describe in detail the structure and functions of spleen.
- h) Write an account on divisions of human skeleton.
- i) Describe the structure, types and functions of bones.
- j) Explain ABO and Rh blood grouping. Comment on blood transfusion.

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**F.Y.B.Pharmacy**

**PHARMACEUTICAL ANALYSIS - I  
(2019 Pattern) (Semester-I)(Theory)(BP102T)**

*Time : 3 Hours]*

*[Max. Marks : 75*

*Instructions to the candidates:*

- 1) *All questions are compulsory.*
- 2) *Figures to the right indicate full marks.*
- 3) *Draw neat labelled diagram wherever necessary.*

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**Q1)** Answer ANY FIVE objective type questions out of the following. **[5×3=15]**

- a) Explain concepts of oxidation and reduction.
- b) Discuss three metal ion indicators with the examples.
- c) Explain the methods of expressing concentration in the pharmaceutical solution.
- d) What are different techniques used for analysis?
- e) Write the scope of Pharmaceutical analysis.
- f) Classify Complexometric titrations with suitable example.
- g) Explain the working of Conductivity cell.

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**Q2)** Answer ANY TWO questions out of the following. **[2×10=20]**

- a) Write the methods to determine end point of potentiometric titrations and discuss various applications of potentiometric titrations.
- b) Explain the following terms: Sources of errors, types of errors and methods of minimizing errors.
- c) Explain the neutralization curves of Weak Acid with Strong Base and Weak Base with Strong Acid.
- d) Discuss in detail Mohr's method and Volhard's Modified method.

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Q3) Answer ANY Eight questions out of the following. <https://pharmacyindia.co.in/> [8×5=40]

- a) Explain masking and demasking reagents.
- b) Discuss the steps involved in gravimetric analysis.
- c) Discuss the procedure for estimation of barium sulphate in gravimetric analysis.
- d) Write a note on Cerimetry. <https://pharmacyindia.co.in/>
- e) Explain the construction and working of dropping mercury electrode used in Polarography.
- f) Discuss the solvents used in Non aqueous titrations.
- g) Discuss co-precipitation. <https://pharmacyindia.co.in/>
- h) Explain working of Abbe's refractometer.
- i) Discuss the principle of Polarography.
- j) Write the principle and procedure for estimation of Sodium Chloride I.P.

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**First Year B. Pharmacy**

**BP- 104T : PHARMACEUTICAL INORGANIC CHEMISTRY**

**(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.*
- 3) *Draw neat diagrams structures wherever necessary.*

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**Q1)** Attempt any five out of seven:

**[5×3=15]**

- a) Give a detailed account of the history of Pharmacopoeia.
- b) Explain Different type of official waters and official control test for water.
- c) Give assay for Potassium chloride.
- d) What are electrolytes?
- e) Describe Acidifiers with Example.
- f) What are Expectorants? How do they work?
- g) Define Desensitizing agents with examples.

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**Q2)** Attempt any two out of four:

**[2×10=20]**

- a) What are limit test? Explain limit test for Iron and Lead.
- b) Describe the various sources of impurities present in pharmaceutical substances.
- c) Give the preparation, identification tests, assay and medicinal used of:
  - i) Magnesium sulphate
  - ii) Magnesium hydroxide
- d) Explain the principle and procedure involved in the limit test of arsenic with a neat Labeled diagram of Gutziet's apparatus.

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Q3) Attempt any eight out of ten:

[8×5=40]

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- a) Give the preparation, identification tests, assay and medicinal uses of ferrous sulphate.
- b) Define Radio activity and measurement of radioactivity with units.
- c) Give the uses of Sodium iodine<sup>131</sup>, Indium<sup>111</sup>, Calcium<sup>47</sup>, Chromium<sup>51</sup>.
- d) Define buffer capacity and give calculations and methods of adjusting isotonicity.  
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- e) Write a note on Emetics.
- f) Define antidote and uses of Sodium thiosulphate, Activated charcoal, Sodium nitrite.  
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- g) Give properties of  $\alpha$ ,  $\beta$ ,  $\gamma$  radiations precautions & pharmaceutical applications of radioactive substances.
- h) Give modified limit test for Chloride and Sulphate.  
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- i) Explain the role of fluoride in the treatment of dental caries.
- j) Write in detail about Astringents.

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