

Total No. of Questions : 3] [Visit - pharmacyindia.co.in](https://pharmacyindia.co.in)

SEAT No. :

PA-4523

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**F. Y. B. Pharmacy**

**BP101T : HUMAN ANATOMY AND PHYSIOLOGY - I (Theory)**

**(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 the right indicate full marks.*
- 3) *Draw an appropriate diagram/s wherever necessary.*

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**Q1) Attempt any five from the followings :**

**[5 × 3 = 15]**

- a) Explain various basic life processes.
- b) Explain Passive diffusion.
- c) Give structural and functional classification of joints.
- d) Define blood transfusion and give its significance.
- e) Explain structure of lymph node.
- f) Give types of blood circulation.
- g) Enlist functions of skin.

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**Q2) Attempt any two from the followings :**

**[2 × 10 = 20]**

- a) Explain morphology and functions of different types of blood cells.
- b) Explain characteristical features and functions of bones of appendicular skeletal system.
- c) Explain in detail regulation of blood pressure.
- d) Explain structure and functions of ear.

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Q3) Attempt any eight from the followings :

[8 × 5 = 40]

- a) Explain sliding filament theory.
- b) Explain structure of eye.
- c) Explain electrocardiogram. <https://pharmacyindia.co.in/>
- d) Explain structure and functions of spleen.
- e) Explain structural and functional features of nervous tissue.
- f) Explain Erythropoiesis.
- g) Explain characteristics and functions vertebral column.
- h) Explain cell division. <https://pharmacyindia.co.in/>
- i) Explain structural and functional features of parasympathetic system.
- j) Explain positive feedback mechanisms for homeostasis.

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**F.Y. B.Pharmacy**

**BP-102T : Pharmaceutical Analysis - I**  
**(2019 Pattern) (Semester - I)**

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[Max. Marks : 75

*Time : 3 Hours]*

*Instructions to the candidates:*

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

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**Q1)** Answer ANY FIVE objective type questions out of the following :

[5 × 3 = 15]

- a) Discuss post precipitation. <https://pharmacyindia.co.in/>
- b) Explain why the visual indicators change their colour.
- c) Classify acid base titrations.
- d) Give the criteria for selection of Primary standards.
- e) Write the applications of Refractometry. <https://pharmacyindia.co.in/>
- f) Write the difference between accuracy and precision.
- g) Discuss the advantages and limitations of Mohr's method.

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**Q2)** Answer ANY TWO questions out of the following :

[2 × 10 = 20]

- a) Discuss in detail about Conductometric Titrations. Write the applications of Conductometry. <https://pharmacyindia.co.in/>
- b) How do you prepare and standardize the solution of Potassium Permanganate I.P. Write the applications of Permanganometry.
- c) What is Complexometric titration? Classify them with suitable examples. Discuss metal ion indicators. <https://pharmacyindia.co.in/>
- d) Discuss the solvents used in non-aqueous titrations, and explain estimation of sodium benzoate.

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Q3) Answer ANY EIGHT questions out of the following : [8 × 5 = 40]

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- a) Explain the neutralization curves of Strong Acid with Strong Base.
- b) Write a note on Modified Volhard's method. <https://pharmacyindia.co.in/>
- c) Explain Ilkovic Equation used in Polarography.
- d) Discuss the advantages and limitations of Glass Electrode.
- e) Write a note on Iodimetry. <https://pharmacyindia.co.in/>
- f) Write the applications of Potentiometry.
- g) Explain the term specific and molar refraction.
- h) Write the principle and procedure for estimation of ammonium chloride. <https://pharmacyindia.co.in/>
- i) Explain principle and steps involved in gravimetric analysis.
- j) Explain the principle and procedure for estimation of Calcium gluconate I.P.

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BP103T : PHARMACEUTICS - I

(2019 Pattern) (Semester - I)

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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) Answer any 5 out of 7 :

[5 × 3 = 15]

- a) Explain how pharmacy education started in India.
- b) Define :
  - i) Cachets <https://pharmacyindia.co.in/>
  - ii) Lozenges
  - iii) Pills
- c) Enlist the steps in prescription handling.
- d) Define posology and give any one formula for dosage calculation.
- e) Convert the following degree of proof spirit into real strength (% v/v)
  - i) 75° UP
  - ii) 35.3° OP <https://pharmacyindia.co.in/>
- f) Define effervescent powder and enlist their advantages.
- g) What is reconstituted suspension? Give one example of it?

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Q2) Long answer questions (Answer any 2 out of 4) :

[2 × 10 = 20]

- a) Comment on stability of suspension. <https://pharmacyindia.co.in/>
- b) Define emulsion. Discuss the identification tests for emulsion. Add a note on their types.
- c) Discuss various suppository bases in detail also add a note on additives for suppository. <https://pharmacyindia.co.in/>
- d) Write a note on factors influencing the dermal penetration of drug.

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**Q3) Short answer questions (Solve any 8 out of 10) :** [8 × 5 = 40]

- a) Classify dosage forms on the basis of site of administration and give any two needs for dosage forms.
- b) Classify gels. <https://pharmacyindia.co.in/>
- c) Write a note therapeutic incompatibility.
- d) Explain theories of emulsification.  
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- e) Define monophasic liquids. Classify them in detail.
- f) Enlist various solubility enhancement techniques and explain any 1 in detail.  
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- g) Describe powders for external application.
- h) Explain factors affecting dose of drug.
- i) How many ml of 60% w/v glucose solution and 10% w/v glucose solution are required to prepare 3000ml of 20% w/v glucose solution?  
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- j) Write a note on pharmacy as a career.



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F.Y. B. Pharmacy

**BP104T : 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 the figures whenever necessary.

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

**[5 × 3 = 15]**

- a) Give principle and reaction for Arsenic limit test.
- b) What are buffers? Give examples of buffers in pharmaceutical systems.
- c) Give assay for Calcium Gluconate.
- d) Give role of fluoride in the treatment of dental caries. Add a note on Zinc eugenol cement.
- e) Give ideal properties of antacids. Write various antacid combinations.
- f) What are adsorbents? Give examples. <https://pharmacyindia.co.in/>
- g) Write in detail about Haematinics.

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

**[2 × 10 = 20]**

- a) What are limit tests? Discuss in detail about chloride limit test and Iron limit test. <https://pharmacyindia.co.in/>
- b) Give the preparation, identification tests, assay and medicinal uses of
  - i) Hydrogen peroxide
  - ii) Chlorinated lime

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- c) What is radioactivity? Explain a method for the measurement of radioactivity. Add a note on Pharmaceutical applications of radioactive substances.

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- d) Write a note on Physiological acid base balance. Give functions of major extracellular electrolytes.

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**Q3) Attempt any eight out of ten.**

**[8 × 5 = 40]**

- a) Define Antidote. Give the preparation and assay of Sodium thiosulphate.

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- b) Write about Indian Pharmacopoeia.

- c) What is buffer equation and buffer capacity?

- d) Write in detail about acidifiers.

- e) Write a note on expectorants and emetics.

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- f) Give storage and handling of radiopharmaceuticals. Add a note on Sodium iodide.

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- g) Explain various official waters with their Quality control tests.

- h) Give in detail about ORS.

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- i) Write a note on cathartics and astringents.

- j) Write in detail about antimicrobial agents. Give their classification and mechanism.

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