

Registration No :

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Total Number of Pages : 02

Course: B.Pharm  
Sub\_Code: BP102T

1<sup>st</sup> Semester Regular/Back Examination: 2022-23

SUBJECT: Pharmaceutical Analysis - I

BRANCH(S): Pharmacy

Time : 3 Hour

Max Marks : 75

Q. Code : L706

Answer Question No.1 (Part-1) which is compulsory, any seven from Part-II and any two from Part-III.

The figures in the right hand margin indicate marks.

**Part-I**

Q1

Answer the following questions :

(2 x 10)

- Define & differentiate accuracy and precision.
- Differentiate complexes and chelates with suitable examples.
- Mention the advantages of non-aqueous methods of titration.
- Mention two indicators used in Fajan's method of titration.
- Differentiate post-precipitation and co-precipitation.
- What is Nernst equation? Mention its significance.
- What is Ilkovic equation?
- Write two applications of potentiometry.
- Define specific resistance and specific conductance.
- Calculate the pH of 0.01N HCl.

**Part-II**

Q2

Focused-Short Answer Type Questions- (Answer Any Seven)

(5 x 7)

- Classify errors with suitable examples.
- Write the preparation and standardization of 0.1N Oxalic acid.
- What are the steps involved in gravimetric analysis of drugs?
- With the help of a neat diagram, explain the construction and working of Rotating Platinum Electrode.
- What are the various applications of Polarography?
- Define potentiometry. Discuss the construction and working of any one Indicator Electrode.
- Explain various types of currents in Polarographic method.
- What are primary and secondary standards? Give suitable examples. Write down the criteria of a primary standard.
- Classify the solvents used in non-aqueous method of titration with suitable examples.

**Part-III**

**Long Answer Type Questions (Answer Any Two)**

- Q3** Describe various methods of minimization of errors. (10)
- Q4** Describe Mohr's method and Volhard's methods of titration in detail. (10)
- Q5** What are reference electrodes? Describe the construction, working, advantages and disadvantages of standard hydrogen electrode and calomel electrode. (10)
- Q6** Explain the construction of conductivity cell. Add a note on applications of conductometry. (10)

290-05/07/2023-14

290-05/07/2023-14

290-05/07/2023-14

290-05/07/2023-14

Registration No :

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Total Number of Pages : 02

Course: B.Pharm  
Sub\_Code: BP104T

1<sup>st</sup> Semester Regular/Back Examination: 2022-23

Pharmaceutical Inorganic Chemistry

BRANCH(S): B.Pharma

Time: 3 Hours

Max Marks: 75

Q.Code: L724

Answer Question No.1 (Part-1) which is compulsory, any seven from Part-II and any two from Part-III.

The figures in the right hand margin indicate marks.

Part-I

Q1 Answer the following questions :

(2 x 10)

- Mention the principle of limit test of heavy metals.
- What is the molecular formula and uses of sodium bicarbonate?
- Define the term astringent with examples.
- What do you mean by buffer capacity?
- What are the units used in radiopharmaceuticals?
- Define limit test with its importance in pharmaceuticals.
- What is anticaries agent, give two examples?
- What is the role of citric acid in limit test of iron?
- Why barium chloride solution is replaced with barium sulphate reagent in limit test of sulphate?
- What is the use of chlorinated lime?

Part-II

Q2 Focused-Short Answer Type Questions- (Answer Any Seven)

(5 x 7)

- Discuss principle, chemical reaction and construction of limit test for Arsenic.
- Discuss measurement of radio isotopes and half life period of radioactive elements.
- What is isotonic solution and show out the tonicity with different concentrations of NaCl solutions?
- Write down the chemical reaction and principle of limit test of chloride.
- Discuss the term Haematinics and Emetics with examples.
- Classify different types of Cathartics with examples.
- What is the use Sodium thiosulphate in pharmaceuticals?
- Briefly discuss different concepts of acids and bases with their limitation.
- Write down the composition and uses of Oral Rehydration Salt (ORS).



**Part-III**

**Long Answer Type Questions (Answer Any Two)**

- Q3 What do you mean by radiopharmaceuticals? Discuss briefly pharmaceutical application and storage conditions of radioactive substances. (10)
- Q4 Discuss briefly classification and mechanism of antimicrobials agents with examples. (10)
- Q5 What is buffer solution? Show out the mechanism of action of buffer solution with its PH expression relate to Henderson Hasselbalch equation. (10)
- Q6 What is gastrointestinal agents and classify antacids? Enumerates preparation, properties and side effects of aluminum or magnesium containing antacid. (10)

Registration No :

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Total Number of Pages : 02

Course: B.Pharm  
Sub- Code: BP103T

1<sup>st</sup> Semester Regular/Back Examination: 2022-23

SUBJECT: Pharmaceutics

BRANCH(S): B.Pharm

Time : 3 Hour

Max Marks : 75

Q.Code :L715

Answer Question No.1 (Part-1) which is compulsory, any seven from Part-II and any two from Part-III.

The figures in the right hand margin indicate marks.

**Part-I**

Q1 Answer the following questions :

(2 x 10)

- Why emulsion becomes milky white after trituration?
- How you can calculate child dose according to young's formula?
- What are the errors in prescription?
- Give two examples of preservative mostly used in suspension.
- Convert 30% alcoholic preparation to proof spirit.
- What are the English meaning of b.i.d and q.s?
- Define the term 'synergism'.
- Why generally no preservatives are added to Simple Syrup?
- What are Enemas?
- Write the compositions of compound tragacanth.

**Part-II**

Q2 Focused-Short Answer Type Questions- (Answer Any Seven)

(5 x 7)

- Explain the handling of prescriptions.
- Suppositories.
- Write a note on suspending agents.
- Explain in detail about Indian pharmacopoeia.
- Differentiate between cream and paste.
- Factors affecting posology.
- Write a note on powders for external usage.
- Syrup
- Write a note on gargles and mouthwashes.



**Part-III**

**Long Answer Type Questions (Answer Any Two)**

- Q3 How suspension is different from emulsion? Discuss in detail about emulsion. (10)
- Q4 What do you mean by Incompatibility? Classify it. Describe about therapeutical incompatibility with its remedy. (10)
- Q5 Define semisolid dosage form. Write in detail about ointments. (10)
- Q6 Define prescription with the help of an ideal example; describe the importance of all the parts of a prescription. (10)

Registration No :

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Total Number of Pages : 02

Course: B.Pharm  
Sub\_Code: BP101T

1<sup>st</sup> Semester Regular/ Back Examination: 2022-23  
SUBJECT: HUMAN ANATOMY AND PHYSIOLOGY-I  
BRANCH(S): B.PHARM

Time : 3 Hour  
Max Marks : 75  
Q.Code : L702

Answer Question No.1 (Part-1) which is compulsory, any seven from Part-II and any two from Part-III.

The figures in the right hand margin indicate marks.

Part-I

Q1 Answer the following questions :

(2 x 10)

- Define homeostasis.
- Define proximal and distal.
- Classify different types of bones.
- What is anemia?
- What is erythropoiesis?
- Write the name and functions of third cranial nerve.
- What is neurotransmitter?
- Define cardiac output.
- Write the functions of spleen.
- What is Electrocardiogram?

Part-II

Q2 Focused-Short Answer Type Questions- (Answer Any Seven)

(5 x 7)

- Classify tissue; and write location and functions of different muscular tissue.
- Describe the general principles of cell communication.
- Classify joints with examples. Discuss about synovial joint.
- Write the structure and functions of skin.
- Describe the mechanism of blood coagulation.
- What is lymph? Describe details about lymph nodes.
- Write a note on neuro-muscular junction.
- Write a note on cardiac cycle.
- Write the difference between sympathetic and parasympathetic nervous system.



**Part-III**

**Long Answer Type Questions (Answer Any Two)**

- Q3** / With neat and labeled diagram discuss the human cell. Write the structure and functions of plasma membrane. (10)
- Q4** / Describe the composition and functions of blood. Write detail notes on blood group and its significance. (10)
- Q5** / Describe the various parts of eye with a labeled diagram and explain the mechanism of vision. (10)
- Q6** Describe the followings: (5×2)
- a) Physiology of human heart
  - b) Physiology of muscle contraction