W - 2022

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY,
LONERE-RAIGAD-402103

End Semester Examination – Winter 2022

Course: B. Pharmacy | **Semester: I**
Subject Name: Human Anatomy & Physiology-I | **Subject Code: BP101T**
Date: 04/05/2023 | **Max Marks:75** | **Duration: 3 Hr.**

Instructions:

1. **All questions are compulsory**
2. **Draw diagrams / figures wherever necessary**
3. **Figures to right indicate full marks**

Q. 1. Objective Type Questions (Answer all the questions) **(10 x 2) = 20**

i) Define human anatomy and physiology.
ii) Enlist different systems of human body.
iii) Define homeostasis.
iv) Define tissue and enlist different types of tissue.
v) Give the functions of skeletal system.
vi) How many bones are present in Appendicular skeleton?
vii) Difference between endocrine and exocrine gland.
viii) Define mitosis and meiosis.
ix) What do you mean by cardiac cycle?
x) Define cardiac output and cardiac reserve.

Q. 2. Long Answers (Answer 2 out of 3) **(2 x 10) = 20**

i) Define integumentary system, explain in detail skin with the help of neat labeled diagram and add a note on accessory structure of the skin.
ii) Give details overview of sympathetic and parasympathetic nervous system.
iii) Discuss in detail anatomy and physiology of heart. Add a note on blood flow sequence through the heart.

Q. 3. Short Answers (Answer 7 out of 9) **(7 x 5) = 35**

i) Describe the mechanism of blood coagulation.
ii) Describe in detail ribosomes and endoplasmic reticulum.
iii) Explain in detail passive transport of material across the cell membrane.
iv) Elaborate muscular tissue and connective tissue.
v) Explain anatomy and physiology of Eye .
vi) Write a note on physiology of muscle contraction.
vii) Explain in detail synovial joints.
viii) Write a short note on Hematopoiesis.
ix) Describe in brief lymph node and spleen.

------END OF THE PAPER------

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

End Semester Examination – Winter 2022

Date: 10/05/2023

Course	:	B. Pharmacy	Sem	:	I
Subject Name	:	Pharmaceutical Analysis-I	Subject Code	:	BP102T
Max Marks	:	75	Duration	:	3 Hr

Instructions:

1. All questions are compulsory
2. Draw diagrams / figures wherever necessary
3. Figures to right indicate full marks

Q. 1. Objective Type Questions (Answer all the questions) **(10 x 2) = 20**

i) What is oxidizing agent?

ii) What base according to Lowery-Bronsted theory?

iii) Why potentiometer is also called as pH meter?

iv) Enlist names of limit tests official in Indian Pharmacopeia.

v) What is mean by primary standard?

vi) Give the example of self-indicator and external indicator.

vii) What is mean by equivalent conductance?

viii) What is masking agent?

ix) Define Molarity.

x) What is diazotization titration?

Q. 2. Long Answers (Answer 2 out of 3) **(2 x 10) = 20**

i) What is Gravimetry? Explain the steps involved in Gravimetric Analysis.

ii) Describe the concept conductometric titrations. Explain in detail different types of conductometric titrations along with one example.

iii) What is mean by redox titration? Enlist its types and types of indicators used in redox titration. Write in detail about Iodine titrations.

Q. 3. Short Answers (Answer 7 out of 9) **(7 x 5) = 35**

i) What is impurity? Explain sources of impurities in medicinal agents.

ii) Differentiate between Mohr's and Volhard's method.

iii) What is error? Explain in brief types of errors.

iv) What is potentiometry? Explain types of electrodes used in it along with one example.

v) What are titration curves? Write in brief various acid-base titration curves.

vi) Write the principle involved in polarography. Add a note on DME.

vii) Define Indicator. Add a note on theories of indicators.

viii) What is non-aqueous titration? Write a note on properties and classes of solvents used in it with example.

ix) What is complexometric titration? Explain different classes of complexometric titration along with one example.

End Semester Examination – Winter 2022

Date: 06/05/2023

Course	**:**	**B. Pharmacy**	**Sem: I**		
Subject Name	**:**	**Pharmaceutics-I**	**Subject Code**	**:**	**BP103T**
Max Marks	**:**	**75**	**Duration**	**:**	**3 Hr.**

Instructions:

1. **All questions are compulsory**
2. **Draw diagrams / figures wherever necessary**
3. **Figures to right indicate full marks**

Q. 1. Objective Type Questions (Answer all the questions) **(10 x 2) = 20**

i) Enlist the ideal characteristics of ointment base.

ii) Define pharmaceutical powder? Enlist advantages of powder.

iii) Differentiate between flocculated & deflocculated suspension

iv) Find the strength of 75% v/v & 45% v/v alcohol in terms of proof spirit?

v) Define suspension and enlist the ideal characteristics of suspension.

vi) What is eutectic mixture? Give one example of it.

vii) Define syrup and classify it.

viii) Classify semisolid dosage form along with example.

ix) Give advantages and disadvantages of liquid dosage form.

x) Define – a) Liniment, b) Lotion

Q. 2. Long Answers (Answer 2 out of 3) **(2 x 10) = 20**

i) Define incompatibility? Enlist different types of it. Explain in detail about physical incompatibility with remedies.

ii) Define Emulsion? Explain in detail method of preparation of emulsion.

iii) Define Suppository. Write advantages and disadvantages of suppository. Explain in details method of preparation of suppositories along with evaluation test of suppository.

Q. 3. Short Answers (Answer 7 out of 9) **(7 x 5) = 35**

i) Define Prescription and explain the various parts of prescription in detail.

ii) Write in brief about various identification tests for emulsion.

iii) Comment on bases used for ointment preparation.

iv) Define & classify dosage form with suitable examples.

v) Write a short note on Throat Paint.

vi) If adult dose of drug is 400mg, what will be the dose of the drug for:
- i) A child of 10 years & ii) 6 months old infant.

vii) Define suspension. Write stability problems of suspension with remedies to overcome it.

viii) Give various types of chemical incompatibilities in detail

ix) Write short note on dusting powder.

-----END OF THE PAPER-----

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

End Semester Examination – Winter 2022

Date: 08/05/2023

Course	**:**	**B. Pharmacy**	**Sem**	**:**	**I**
Subject Nam	**:**	**Pharmaceutical Inorganic Chemistry**	**Subject Code**	**:**	**BP104T**
Max Marks	**:**	**75**	**Duration**	**:**	**3 Hr.**

Instructions:

- **All questions are compulsory**
- **Draw diagrams / figures wherever necessary**
- **Figures to right indicate full marks**

Q. 1. Objective Type Questions (Answer all the questions) **(10 x 2) = 20**

i) Define Emetics? Give two examples.

ii) Write down the properties and uses of Boric acid.

iii) Write down the properties and uses of Ammonium Chloride.

iv) Define the terms. i) Acidic Buffer ii) Buffer capacity.

v) What are Radiopharmaceuticals?

vi) Define Expectorant. Give two examples.

vii) Draw a well labeled diagram of Gutzeit apparatus.

viii) Define Cathartics with examples.

ix) Write down reaction involved in limit test for Chloride.

x) Classify Gastrointestinal agents with examples.

Q. 2. Long Answers (Answer 2 out of 3) **(2 x 10) = 20**

i) What are Antimicrobial agents? Explain the mechanism of actions of antimicrobial agents with suitable examples. Add a note on Hydrogen Peroxide.

ii) What is impurity? Enlist and explain sources of impurities in the pharmaceutical substances with examples.

iii) Write down the role of major Extra and Intra cellular electrolytes with suitable examples. Give the composition of ORS.

Q. 3. Short Answers (Answer 7 out of 9) **(7 x 5) = 35**

i) Write down the principle, reaction and procedure involved in the limit test of Iron.