DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE
Supplementary Summer Examination – 2024

Course: B. Pharmacy

Subject Name: Human Anatomy and Physiology I

Max Marks: 75

Date:13-06-2024

Semester: I

Subject Code: BP101T

Duration: 3 Hr.

Instructions to the Students:
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)	(10X2) =20
i)	What is the scope of anatomy and physiology?	
ii)	Give any four examples of connective tissues in body.	
iii)	Define Joints? Classify it with example?	
iv)	What are the primary functions of epithelial tissue?	
v)	What do you mean by cardiac cycle?	
vi)	Enlist different parts of ear?	
vii)	What are neurotransmitters released at the neuromuscular junction?	
viii)	Enlist clotting factors.	
ix)	What is the main function of the lymphatic system?	
x)	How kidney is responsible for regulating blood pressure?	
Q.2.	Long Answers (Answer 2 out of 3)	(10X2) =20
i)	Describe the structure and functions of the lymphatic system.	
ii)	Explain the process of hemopoiesis and the functions of blood.	
iii)	Discuss the organization and functions of the peripheral nervous system.	
Q.3.	Short Answers (Answer 7 out of 9)	(5 X 7) = 35
i)	Define homeostasis. Give examples.	
ii)	Name and briefly describe the four types of intracellular signaling.	
iii)	What are the functions of muscular tissue?	
iv)	Note on ABO and Rh system	
v)	Describe the components of the cardiovascular system	
vi)	What are the functions of the reticuloendothelial system?	
vii)	Briefly explain the structure and functions of the eye.	
viii)	Define cardiac output and explain its significance.	
ix)	Discuss the axial and appendicular skeleton.	

*** END OF THE PAPER ***

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DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE
Supplementary Summer Examination – 2024

Course: B. Pharmacy **Semester: II**
Subject Name: Pharmaceutical Analysis I **Subject Code:** BP102T
Max Marks: 75 **Date: 24-06-2024** **Duration: 3 Hr.**

Instructions to the Students:
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 are the effects of impurities on pharmaceutical products?	
ii)	Define Lewis Acid and Base with a suitable example.	
iii)	Why buffers are added in complexometric titrations	
iv)	What are the different analytical techniques used in pharmaceutical analysis?	
v)	Name the indicators used in K. Fajan's method of precipitation titration.	
vi)	Write a short note on demasking agents used in complexometric titrations.	
vii)	Give construction of Guitzet apparatus.	
viii)	Define the terms Molarity and Normality.	
ix)	Explain different sources of impurities	
x)	Give the difference between Cerimetry and Iodimetry.	

Q.2.	Long Answers (Answer 2 out of 3)	(10 X 2) = 20
i)	Give a brief account of the limit test of Arsenic with principle, apparatus and procedure.	
ii)	Give a detail account of various end point detection techniques in precipitation titration.	
iii)	Explain different types of complexometric titrations.	

Q.3.	Short Answers (Answer 7 out of 9)	(5 X 7) = 35
i)	Discuss in detail limit test for iron.	
ii)	Write note on the co-precipitation process.	
iii)	Give in detail the different techniques of filtration used in gravimetric analysis.	
iv)	Give a brief account of leveling effect in non-aqueous titrations.	
v)	Write a note on construction and working of Standard hydrogen electrode.	
vi)	Explain Mohr's and Volhard's end point detection methods.	
vii)	Give the construction and working of dropping mercury electrode.	
viii)	Explain the construction of different types of conductometric cells.	
ix)	Discuss in brief the factors affecting surface adsorption	

*** END OF THE PAPER ***

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DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE
Supplementary Summer Examination – 2024

Course: B. Pharmacy
Subject Name: Pharmaceutics I
Max Marks: 75 Date: 19-06-2024

Semester: I
Subject Code: BP103T
Duration: 3 Hr.

Instructions to the Students:
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 Suspension and give its advantage	
ii)	Give difference between Elixirs and syrup	
iii)	Give the role of following Ingredient: Iodine, Cresol, Paractomol and Calamine	
iv)	Define Mouthwash and Gargle	
v)	Define Suppositories and classify suppository base	
vi)	Classify Powder according to route of administration	
vii)	Write a quality of an ideal suspension.	
viii)	Enlist the step of handling of prescription.	
ix)	What are the objectives for dosage form design?	
x)	Define Emulsion and enlist test for identification of emulsion	

Q.2.	Long Answers (Answer 2 out of 3)	(10 X 2) = 20
i)	Define powder, classify the powder. Discuss about powder enclose in cachets.	
ii)	Define the term suppositories? Describe in brief various type of suppository and its method of preparation?	
iii)	Write a note on Emulsion. (Definition, type, Identification test, preparation of emulsion, stability)	

Q.3.	Short Answers (Answer 7 out of 9)	(5 X 7) = 35
i)	Define therapeutic incompatibility and give detail about various reasons?	
ii)	Define Prescription and discuss various parts of prescription.	
iii)	Explain in details about Emulsifying agent.	
iv)	Explain in details about Effervescent granules along with its methods of preparation	
v)	Give in brief, the history of the Indian Pharmacopoeia	
vi)	Write a note on: Pharmacy as a career	
vii)	Explain in detail handling of prescription.	
viii)	Define posology. Explain any 4 factors affecting the dose of the drug	
ix)	Discuss the different method of powder mixing.	

*** END OF THE PAPER ***

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Supplementary Summer Examination – 2024

Course: B. Pharmacy
Subject Name: Pharmaceutical Inorganic Chemistry
Max Marks: 75
Date:21-06-2024

Semester: I
Subject Code: BP104T
Duration: 3 Hr.

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

Q.1. Objective Type Questions (Answer All the Questions) $(10 \times 2) = 20$

i) Explain the terms 'pharmacopeia' and 'monograph'

ii) Define anti-carries agents with examples

iii) Write the principle involved in the limit test for Chloride

iv) Why are combination antacids given?

v) Define Hematinics with an example.

vi) What is the half-life of radioisotope

vii) Define Antiseptics & Disinfectant

viii) Write uses of 1. Potassium Permanganate 2. Sodium thiosulphate

ix) Define Acid and base as per various theories.

x) Classify cathartics.

Q.2. Long Answers (Answer 2 out of 3) $(10 \times 2) = 20$

i) Define and give the classification of gastrointestinal tract agents. What are antacids? Give the ideal properties of antacids. Write preparation, properties used, and assay method for Sodium Bicarbonate.

ii) What are intra and extra-cellular ions? Give their important physiological roles & related disorders.

iii) Define and classify antimicrobial agents. Discuss their mechanism of action. Write preparation, properties, uses, and assay method for Hydrogen peroxide

Q.3. Short Answers (Answer 7 out of 9) $(5 \times 7) = 35$

i) Define and classify antidotes with suitable examples. Discuss their mechanism of action.

ii) Write a note on the history of Indian Pharmacopoeia

iii) What are radiopharmaceuticals? Write properties of α, β, γ radiations

iv) Write a short note on expectorants.

v) What are astringents? Give their mechanism of action. Write properties & uses of potash alum.

vi) Write a note on Electrolyte combination therapy.

vii) Define Emetics. Write preparation and properties, uses of Copper Sulphate ($CuSO_4$)

viii) Define and classify different types of impurities

ix) What are buffer, and buffer capacity? Give types of buffers with their applications.

*** END OF THE PAPER ***