S-23

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

End Semester Examination – ~~Winter~~ Summer 2022-23

Date: 07/09/2023

Course:	**First Year B. Pharmacy**	**Sem:**	**I**
Subject Name:	**Human Anatomy and Physiology-I**	**Subject Code:**	**BP101T**
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) Differentiate between sympathetic and parasympathetic nervous system.

ii) Discuss function of skin.

iii) Explain the bones of the Skull.

iv) Define Joint? Classify it with examples.

v) Explain Layers of skin.

vi) Draw a neat labeled diagram of structure of cell.

vii) Describe the division of skeletal system.

viii) Draw a neat labeled diagram of lymph node.

ix) Note on Function of Ribosome's.

x) List out the basic life processes.

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

i) Explain the structure of heart with neat labeled diagram. Discuss the cardiac cycle.

ii) Explain the structure of eye with a neat labeled diagram. Describe the physiology of vision.

iii) Explain the classification, structure, location and functions of Epithelial tissues.

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

i) Note on ABO and Rh system.

ii) Explain Physiology of muscle contraction.

iii) Explain the origin and functions of spinal and cranial nerves.

iv) Explain homeostasis.

v) Write the composition and functions of blood.

vi) Describe conducting system of Heart

vii) Note on Composition and functions of Lymph.

viii) Write about transport across cell membrane.

ix) Write anatomy of ear.

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End Semester Examination – Summer 2023

Date:09/09/2023

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) Define primary & secondary standard substances with an example of each.

ii) What do you mean by oxidizing and reducing agent?

iii) Give the principle of limit test of chloride.

iv) Write down the definition of acid and base as per Lowry-Bronsted theory?

v) What is levelling and differentiating effect?

vi) What is masking and demasking?

vii) How will you standardize 0.1N $KMnO_4$ Solution?

viii) Write down the principle of Volhard's method.

ix) Define equivalent conductance.

x) Give the principle of diazotization titration?

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

i) Describe the principle of Potentiometric titration. Write down the construction and working of indicator electrode and reference electrode.

ii) Explain different types of acid base titrations. Add a note on neutralization curve.

iii) Define gravimetric analysis. Describe the various steps involved in it.

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

i) What is Pharmaceutical Analysis? Give the classification of different techniques of analysis.

ii) Define error. Enlist the sources and types of errors and explain methods of minimizing errors.

iii) What do you mean by impurity? Describe the sources of impurities in pharmaceuticals.

iv) Define indicator and explain Ostwald theory and resonance theory of acid base indicators.

v) What is non aqueous titration? Explain different types of non-aqueous solvents with examples.

vi) What is precipitation titration? Write in detail about Mohr's method.

vii) Explain the concept of redox titration with suitable example and differentiate between Iodimetry and Iodometry.

viii) Write a short note on Conductomeric titrations.

ix) Explain the principle of Polarography. Focus on construction and working of dropping of mercury electrode and rotating platinum electrode.

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DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

End Semester Examination – Summer 2023

Date:12/09/2023

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) Give advantages and disadvantages of solid dosage form.

ii) Find out the proof strength of alcohol which is 90%v/v and 30%v/v.

iii) Differentiate between liniment and lotion.

iv) Define a) Drug, b) Dosage form

v) Give the ideal characteristics of dusting powder

vi) Define and classify Incompatibilities.

vii) Write the Young's formula for calculation of child dose.

viii) Define and classify syrup with example.

ix) Give advantages and disadvantages of Suppositories.

x) Classify liquid dosage form.

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

i) Define emulsion, give its identification tests and explain about stability problems of emulsion

ii) What is posology? Explain in detail various factors affecting dose of drug.

iii) Summarize different parts of prescription and write a note on handling of prescription.

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

i) Differentiate between flocculated and deflocculated suspension.

ii) Define powder and write its advantages and disadvantages.

iii) Define Prescription and write a note on errors in prescription

iv) Write a note on therapeutic incompatibility.

v) Define ointment and explain ointment bases in detail.

vi) Define and classify dosage form.

vii) Write a note on excipients used in formulation of liquid dosage form.

viii) Write in brief careers in pharmacy.

ix) Describe in brief Displacement value

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DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

End Semester Supplementary Examination – Summer 2023

Date: 14-09-2023

Course	:	B. Pharmacy	**Sem:**		I
Subject Name	:	Pharmaceutical Inorganic Chemistry	**Subject Code**		BP104T
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 Achlorhydria and gives its treatment.

ii) Define astringents with example.

iii) Define Dentifrices and give its example.

iv) Write the reaction involve in the limit test of sulphate.

v) Define antiseptic and disinfectant.

vi) Give the chemical formula and medicinal uses of sodium thiosulphate.

vii) What is the alpha particle decay and give its suitable example?

viii) Give the preparation and uses of $CuSO_4$.

ix) Give the composition of ORS.

x) Define hyponatremia and hypernatremia.

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

i) Define impurities and describe the various sources of impurities present in pharmaceutical substances with examples.

ii) Define Buffers. Explain the mechanism of buffer action with an example. Briefly discuss the role of Buffers in Pharmacy.

iii) Describe in detail Geiger - Muller counters and Scintillation counters for the measurement of Radio - activity.

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

i) Define limit test and write down the principle, reaction, procedure involve in the limit test of chloride.

ii) Write a note on cyanide poisoning.

iii) Define and Classify antacids with suitable example and give the ideal properties of Antacid.

iv) Write molecular formula, properties, method of preparation, assay and uses of

sodium chloride.

v) Define Antimicrobial agent. Discuss mechanism of action (MOA) of inorganic antimicrobial agent.

vi) Define and classify expectorant with its mechanism of action (MOA).

vii) Define anticaries agents. Explain how fluoride produces ant-carries activity.

viii) Name the disease caused by iron deficiency? Explain role of iron in the body.

ix) Write the pharmaceutical application of radioactive substance.

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