

## SNS COLLEGE OF ALLIED HEALTH SCIENCE, COIMBATORE -35

(Affiliated to the Tamil Nadu Dr M.G.R Medical University, Chennai)





#### SUBJECT CODE AND NAME: 1131 - BASIC SCIENCES - PHYSIOLOGY

**UNIT 1: CELL AND BLOOD** 

Reference: The Tamilnadu Dr.M.G.R Medical University Pervious Year Question Papers

## I. Elaborate On: 10 marks

S.No	Questions	Reference	Bloom's Taxonomy
1	Classify Carbohydrates. Explain Glucose metabolism.	(Aug 2015)	Analyze
2	Write the Composition of Blood and its Functions.	(Aug 2019)	Analyze
3	Draw and Label a neat diagram of Animal cell, Write the functions of the cell organelles.	(Feb 2020)	Analyze
4	Write in detail about the causes and mechanism of Cell injury.  Add a note on Irreversible cell Injury.	(Feb 2016)	Analyze
5	Explain about the cell under the following headings with suitable diagrams: a) Structure and functions of cell membrane b) Mitochondria c) Golgi apparatus d) Lysosomes.	(Aug 2016)	Analyze
6	What are Blood groups? Discuss their importance.	(Aug 2016)	Analyze
7	Explain the structure and functions of cell organelles with suitable diagrams.	(Aug 2019)	Analyze
8	Describe in detail the mechanism of regulation of blood pH.	(Aug 2016)	Analyze
9	Explain the process of blood clotting and its clinical significance.	(Mar 2021)	Analyze

## II. Write notes on: 5 marks

S.No	Questions	Reference	Bloom's Taxonomy
1	Functions of Protein.	(Aug 2015, Feb 2016)	Understand
2	Functions of Blood.	(Aug 2015)	Understand
3	Clotting Mechanism.	(Feb 2020)	Understand
4	Explain the functions of plasma proteins.	(Aug 2016)	Understand
5	Erythroblastosis fetalis.	(Aug 2016)	Understand
6	General Characteristics features of Inflammation.	(Feb 2020)	Understand
7	Cell membrane structure and functions.	(Aug 2016)	Understand
8	Composition of Blood.	(Mar 2021)	Understand
9	Functions of Blood Cells.	(Nov 2022)	Understand
10	Blood groups and their significance.	(Aug 2016)	Understand
11	Functions of Mitochondria.	(Aug 2015)	Understand
12	Reversible and Irreversible Cell Injury.	(Aug 2017)	Understand
13	Role of Blood in Immunity.	(Nov 2023)	Understand



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## III. Write a short note on:

#### 3 marks

S.No	Questions	Reference	Bloom's Taxonomy
1	Functions of Calcium.	(Aug 2015, Feb 2016)	Remember
2	Functions of Mitochondria and Golgi Apparatus.	(Aug 2015)	Remember
3	Classification of Enzymes.	(Aug 2015, Feb 2016)	Remember
4	Cell death.	(Aug 2015, Feb 2016)	Understand
5	Functions of plasma.	(Aug 2019)	Remember
6	Essential Amino Acids.	(Aug 2019)	Remember
7	Normal values of Lung volumes.	(Aug 2015)	Remember
8	Buffers.	(Aug 2015, Feb 2016, Aug 2019)	Understand
9	Hyperkalemia.	(Aug 2015, Feb 2016, Aug 2019)	Understand
10	Functions of CSF.	(Aug 2015, Feb 2016)	Remember
11	Define a) Blood pressure b) Systolic Blood Pressure c) Diastolic Blood Pressure.	(Aug 2015, Feb 2016)	Remember
12	Classify leucocytes and write its normal percentage.	(Aug 2016)	Remember
13	Blood clotting factors.	(Feb 2020)	Understand
14	Functions of Hemoglobin.	(Nov 2022)	Understand
15	Types of Blood Cells.	(Mar 2021)	Remember
16	Role of Platelets.	(Nov 2023)	Understand
17	Erythrocyte Sedimentation Rate.	(Nov 2023)	Understand
18	Blood pH regulation.	(Aug 2016)	Understand
19	Action of Parathormone on Bone.	(Aug 2016)	Understand
20	Functions of Vitamin-K.	(Aug 2019, Aug 2016)	Remember