



SUBJECT CODE AND NAME: 1131 – BASIC SCIENCES – PHYSIOLOGY

UNIT 2: CARDIOVASCULAR SYSTEM

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	Explain the events of Cardiac cycle.	(Aug 2015, Feb 2016)	Analyze
2	Explain in detail about Cardiac Cycle.	(Mar 2021)	Analyze
3	Define cardiac output. Explain the factors regulating cardiac output.	(Nov 2022)	Analyze
4	Define Cardiac Output. Discuss in detail about the various factors affecting it.	(Nov 2023)	Analyze
5	Explain the physiology of the heart, including heart sounds and regulation of blood pressure.	(Mar 2021)	Analyze
6	Describe the cardiac cycle and its phases with suitable diagrams.	(Aug 2015)	Analyze
7	Explain the mechanism of arterial blood pressure regulation and causes of hypertension.	(Nov 2022)	Analyze
8	Discuss the interpretation of ECG and its clinical significance.	(Mar 2021)	Analyze
9	Explain the steps of CPR and its importance in cardiac emergencies.	(Nov 2022)	Analyze

II. Write notes on:

5 marks

S.No	Questions	Reference	Bloom's Taxonomy
1	Hypertension.	(Mar 2021)	Understand
2	Waves in ECG.	(Nov 2022)	Understand
3	Cardiopulmonary Resuscitation.	(Nov 2022)	Understand
4	Auscultatory Areas.	(Feb 2020)	Understand
5	Origin, course and Branches of Right coronary artery.	(Aug 2016)	Understand
6	Valves of the Heart.	(Feb 2020)	Understand
7	Pericardium.	(Aug 2015, Feb 2016, Feb 2020)	Understand
8	Explain the functions of plasma proteins.	(Aug 2016)	Understand
9	Blood groups and Rh factor.	(Nov 2022)	Understand
10	Functions of posterior pituitary hormones.	(Apr 2022)	Understand
11	Erythroblastosis fetalis.	(Aug 2016, Apr 2022)	Understand
12	Explain the factors affecting enzyme activity.	(Apr 2022)	Understand
13	Water soluble vitamins.	(Nov 2022)	Understand



III. Write a short note on:

3 marks

S.No	Questions	Reference	Bloom's Taxonomy
1	Auscultatory areas.	(Aug 2015, Feb 2016, Apr 2024)	Remember
2	Define a) Blood pressure b) Systolic Blood Pressure c) Diastolic Blood Pressure.	(Aug 2015, Feb 2016)	Remember
3	Waves of Electro cardiogram.	(Mar 2021)	Understand
4	Define blood pressure.	(Nov 2022)	Remember
5	Electro Cardiogram (ECG).	(Apr 2023)	Understand
6	Heart Sounds.	(Apr 2023)	Understand
7	Tributaries of coronary sinus.	(Aug 2016, Apr 2022, Apr 2024)	Remember
8	Valves of the heart.	(Aug 2016)	Remember
9	Situation, Blood Supply and Nerve supply of Heart.	(Feb 2016)	Remember
10	Blood supply of the Heart.	(Mar 2021)	Remember
11	Glomerular Filtration Rate.	(Mar 2021)	Understand
12	Hyperkalemia.	(Aug 2015, Aug 2019)	Understand
13	Functions of Hemoglobin.	(Nov 2022)	Understand
14	Erythrocyte Sedimentation Rate.	(Nov 2023)	Understand
15	Classify leucocytes and write its normal percentage.	(Aug 2016)	Remember
16	Functions of Calcium.	(Aug 2015, Nov 2023)	Understand
17	Define (a) Normality (b) Molarity (c) Molality	(Aug 2016, Apr 2022)	Remember
18	Cyanosis.	(Apr 2022)	Understand
19	Buffers.	(Aug 2015, Apr 2023)	Understand
20	Landsteiner's Law.	(Mar 2021)	Remember