



SUBJECT CODE AND NAME: 1131 – BASIC SCIENCES – PHYSIOLOGY

UNIT 3: RESPIRATORY 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 about the Movements of Respiration.	(Feb 2020)	Analyze
2	Define types of gas laws. Mention and explain its practical application in respiratory physiology.	(Jan 2022)	Analyze
3	Define hypoxemia. Explain the causes, responses and clinical signs of hypoxemia. Mention the hazards of oxygen therapy.	(Jan 2022)	Analyze
4	Define Hypoxemia, causes of Hypoxemia and clinical signs. Describe oxygen delivery system.	(Jan 2022)	Analyze
5	What is hypoxemia, clinical sign of hypoxemia hazards of oxygen therapy?	(May 2024)	Analyze
6	Enumerate different lung volumes and capacities. Write shortly on FRC.	(2024)	Analyze
7	Discuss etiology, clinical features, investigation and management of bronchial asthma.	(Jan 2022)	Analyze
8	Describe the mechanism of respiration including inspiration and expiration with role of surfactants.	(Apr 2021)	Analyze
9	Explain the examination of the respiratory system including lung volumes and oxygen saturation assessment.	(May 2024)	Analyze

II. Write notes on:

5 marks

S.No	Questions	Reference	Bloom's Taxonomy
1	Muscles of Respiration.	(Aug 2015, Feb 2016)	Understand
2	Broncho - Pulmonary Segment.	(Aug 2019)	Understand
3	Intraoperative Bronchospasm.	(Jan 2022)	Understand
4	Evaluation of a patient on oxygen therapy.	(Jan 2022)	Understand
5	Capnography.	(Jan 2022)	Understand
6	Bronchial asthma causes and clinical features.	(Jan 2022)	Understand
7	Clinical signs of hypoxemia.	(May 2024)	Understand
8	Define Boyle's law and Charles law. Mention clinical applications of both.	(Jan 2022)	Understand
9	Dead space and clinical importance.	(Jan 2022)	Understand
10	Chronic Bronchitis.	(Jan 2022)	Understand
11	List the difference between obstructive versus Restrictive pulmonary diseases.	(Jan 2022)	Understand
12	Laboratory diagnosis of pleural effusion.	(Jul 2022)	Understand
13	Bronchiectasis.	(Jul 2022)	Understand



III. Write a short note on:

3 marks

S.No	Questions	Reference	Bloom's Taxonomy
1	Normal values of Lung volumes.	(Aug 2015)	Remember
2	Tidal Volume.	(Feb 2020)	Remember
3	Gay Lussac's Law.	(Jan 2022)	Understand
4	Pulmonary Function Test.	(Jan 2022)	Understand
5	Tension Pneumothorax and Emergency Treatment.	(Jan 2022)	Understand
6	OR Lung Function Test.	(Jan 2022)	Understand
7	Acute pulmonary edema.	(Jan 2022)	Understand
8	Disadvantages of pulse oximetry.	(Jan 2022)	Understand
9	Pulse oximetry.	(Jan 2022, May 2024)	Remember
10	List the lung capacities.	(May 2024)	Remember
11	List three causes of pulmonary edema.	(Jan 2022)	Remember
12	Mention three causes of pleural effusion.	(Jan 2022)	Remember
13	Types of Chronic obstructive Pulmonary Disease.	(Jul 2022)	Understand
14	Name three commonly used Mucolytics.	(Jul 2022)	Remember
15	Limitations and disadvantages of pulse oximetry.	(Jul 2022)	Understand
16	What is dead space and shunt in relation to respiratory physiology?	(Jul 2022)	Understand
17	Cyanosis.	(Jan 2022)	Understand
18	Pneumothorax.	(Jan 2022)	Understand
19	Define vital capacity and give its normal value.	(Apr 2021)	Remember
20	Capnograph.	(May 2024)	Understand