

ANATOMY AND PHYSIOLOGY QUESTION BANK

S. No	Question Type	Question	Year	Blooms Taxonomy
1	Essay – 15 Marks	Describe the anatomy of respiratory system including upper respiratory tract, lower respiratory tract, trachea, bronchial tree, bronchopulmonary segments, respiratory unit and hilum of lung.	Jan 2022	Analyze
2	Essay – 15 Marks	Explain muscles of respiration in detail – primary and accessory muscles, their actions during quiet and forced breathing.	Jun 2022	Analyze
3	Essay – 15 Marks	Discuss pleura, intrapleural space, intrapleural pressure and role of surfactant. Explain mechanics of respiration including chest wall movements and lung compliance.	Nov 2023	Analyze
4	Essay – 15 Marks	Describe ventilation-perfusion (V/Q) relationship, airway resistance and neural & chemical regulation of respiration.	Aug 2024	Apply
5	Essay – 15 Marks	Explain lung volumes and capacities in detail. Discuss spirogram, lung function tests and their clinical significance.	Feb 2020	Analyze
6	Essay – 15 Marks	Describe anatomy of heart including chambers, semilunar and atrioventricular valves, coronary circulation and conductive system.	Aug 2010	Analyze

7	Essay – 15 Marks	Explain cardiac cycle in detail with pressure-volume changes, heart sounds and ECG correlation.	Apr 2023	Analyze
8	Essay – 15 Marks	Discuss pulmonary circulation, lung sounds and cough reflex mechanism.	Oct 2016	Analyze
9	Essay – 15 Marks	Describe regulation of blood pressure, pulse examination and factors affecting cardiac output.	Apr 2014	Analyze
10	Essay – 15 Marks	Explain respiratory centre and neural-chemical control of respiration with role of central and peripheral chemoreceptors.	Feb 2020	Analyze
11	Short Notes	Bronchopulmonary segments	Aug 2009	Understand
12	Short Notes	Muscles of respiration	Aug 2009	Understand
13	Short Notes	Surfactant and its role	Oct 2022	Remember
14	Short Notes	Intrapleural pressure	Oct 2022	Analyze
15	Short Notes	Conductive system of heart	Apr 2023	Understand
16	Short Notes	Cardiac cycle	Nov 2023	Understand
17	Short Notes	Lung compliance	Nov 2023	Remember
18	Short Notes	V/Q ratio	Aug 2024	Analyze

19	Short Notes	Cough reflex	Feb 2025	Understand
20	Short Notes	Heart sounds	Feb 2010	Understand
21	Short Answers	Normal value of tidal volume	Sep 2021	Remember
22	Short Answers	Site of hilum of lung	Jan 2022	Remember
23	Short Answers	Primary muscle of inspiration	Jun 2022	Understand
24	Short Answers	Normal intrapleural pressure	Apr 2023	Remember
25	Short Answers	One cause of barrel chest	Nov 2023	Understand
26	Short Answers	Bundle of His located in	Aug 2009	Remember
27	Short Answers	Normal cardiac output	Feb 2010	Remember
28	Short Answers	Normal respiratory rate in adult	Jan 2022	Understand
29	Short Answers	Main coronary arteries	Aug 2024	Understand
30	Short Answers	FEV1/FVC ratio in normal	Jan 2022	Apply