



THE GURUKUL INSTITUTE

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BREATHING & EXCHANGE OF GASES
TEST - Xth

Q-1: Objective type question:-

1. What will be the PO₂ and PCO₂ in the atmospheric air compared to those in the alveolar air-

- a) PO₂ lesser, PCO₂ higher b) PO₂ higher, PCO₂ lesser
c) PO₂ higher, PCO₂ higher d) PO₂ lesser, PCO₂ lesser

2. Respiratory mechanism is controlled by

- a) Central nervous system b) sympathetic nervous system
c) Parasympathetic nervous system d) Dorsal nervous system

3. The greatest quantity of air that can be expired after a maximum inspiratory effort is its-

- a) Residual volume b) Tidal volume c) Vital Capacity d) Lung volume

4. The covering of lung is called

- a)

5. Oxygen dissociation curve of hemoglobin is-

- a) sigmoid b) Hyperbolic c) Linear d) hypobolic

6. Respiratory centre is situated in-

- a) cerebellum b) Medulla c) Hypothalamus
d) Cerebrum

7. Carbon dioxide entering erythrocytes reacts with water to form carbonic acid. The enzyme is-

- a) Carbonic anhydrase b) Hydrolase c) Carboxy
d) Oxidoreductase

8. Air is breathed through:-

- a) Trachea – lungs – larynx – pharynx – alveoli
b) Nose – larynx – pharynx – bronchus – alveoli – bronchioles
c) Nose – mouth – lungs
d) Nostrils – pharynx – larynx – trachea – bronchi – bronchioles

9. At high altitude RBC's of human blood will - :

- a) Increase in number b) decrease in number c) increase in size
d) decrease in size

10. Food does not enter foodpipe due to the structure called:-

- a) Glossopharyngeal tonsils b) Epiglottis c) Pharynx d) tonsils

Q-2:; What are the major transport mechanisms for CO₂. Explain.

Q-3:; Distinguish between-

- a) IRV and RV
b) Functional Residual Capacity (FRC) and Total Lung Capacity (TLC)

Q-4:; State two disorders of the respiratory system?

Q-5:; Explain the process of inspiration under normal conditions?

Q-6:; Give the diagrammatic representation of exchange of gases at the alveoli and the body tissues with blood and transport of O₂ and CO₂.

Q-7:; How is respiration regulated?