

Chapter – 14 | Breathing and Exchange of Gases

QUIZ
PART-09

1. Breathing is mainly an —

- A. Voluntary digestive action
- B. Involuntary action controlled by nervous system
- C. Action controlled only by kidney
- D. Action controlled only by liver (B)

Explanation : Respiratory rhythm is controlled by brain centres.

2. Respiratory rhythm centre is located in —

- A. Medulla region
- B. Cerebrum only
- C. Cerebellum only
- D. Spinal cord only (A)

Explanation : Medullary respiratory rhythm centre regulates respiration.

3. Pneumotaxic centre is present in —

- A. Pons
- B. Kidney
- C. Liver
- D. Alveoli (A)

Explanation : Pons contains pneumotaxic centre which modifies respiratory rhythm.

4. Chemosensitive centre is highly sensitive to —

- A. CO_2 and H^+ ions
- B. Only oxygen
- C. Glucose only
- D. Nitrogen (A)

Explanation : Increased CO_2 and H^+ stimulate respiratory adjustments.

5. Role of oxygen in regulation of respiratory rhythm is —

- A. Very significant always
- B. Very insignificant
- C. Only factor
- D. Equal to glucose (B)

Explanation : CO_2 and H^+ are more important regulators than O_2 .

6. Asthma is caused by —

- A. Allergies like pollen, dust, cold or smoking
- B. Excess haemoglobin only
- C. High oxygen only
- D. Lack of alveoli from birth only (A)

Explanation : Asthma causes inflammation of bronchi/bronchioles and difficulty in breathing.

7. Bronchitis involves —

- A. Swelling and inflammation of bronchi
- B. Damage of kidney
- C. Infection of stomach
- D. Loss of vocal cord only (A)

Explanation : Bronchitis affects the inner surface of bronchi.

8. Emphysema damages —

- A. Alveolar walls
- B. Nasal septum
- C. Epiglottis
- D. Pharynx only (A)

Explanation : Emphysema reduces gas exchange surface by damaging alveoli.

9. Major cause of emphysema mentioned in the PPT is —

- A. Smoking
- B. Drinking water
- C. Eating fruits
- D. Exercise (A)

Explanation : Smoking causes inflammation and gradual alveolar damage.

10. Workers in stone grinding factories should use —

- A. Face masks
- B. More sugar
- C. Ear plugs only
- D. Heavy food only (A)

Explanation : Masks help protect workers from dust causing silicosis/asbestosis.