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NCERT Class 11-Biology: Chapter – 17 Breathing and Exchange of Gases Part 1 (For CBSE, ICSE, IAS, NET, NRA 2022)

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Multiple Choice Questions

Question 1:

Respiration in insects is called direct because

- a. The tissues exchange $\frac{O_2}{CO_2}$ directly with the air in the tubes
- b. The tissues exchange $\frac{O_2}{CO_2}$ directly with coelomic fluid
- c. The tissues exchange $\frac{O_2}{CO_2}$ directly with the air outside through body surface
- d. Tracheal tubes exchange $\frac{O_2}{CO_2}$ directly with the haemocoel which then exchange with tissues

Answer: (d)

Question 2:

Regarding the functions of our respiratory system, mark the wrong entry.

- a. Humidifies the air
- b. Warms up the air
- c. Diffusion of gases
- d. Cleans up the air

Answer: (d)

Question 3:

A person suffers punctures in his chest cavity in an accident, without any damage to the lungs its effect could be

- a. Reduced breathing rate
- b. Rapid increase in breathing rate
- c. No change in respiration
- d. Cessation of breathing

Answer: (d)

Question 4:

It is known that exposure to carbon monoxide is harmful to animals because

- a. It reduces CO_2 transport
- b. It reduces O_2 transport
- c. It increases CO_2 transport
- d. It destroys haemoglobin

Answer: (d)

Question 5:

Mark the true statement among the following with reference to normal breathing

- a. Inspiration is a passive process where as expiration is active
- b. Inspiration is a active process where as expiration is passive
- c. Inspiration and expiration are active processes
- d. Inspiration and expiration are passive processes

Answer: (b)

Question 6:

A person breathes in some volume of air by forced inspiration after having

a forced expiration. This quantity of air taken in is

- a. Total lung capacity
- b. Tidal volume
- c. Vital capacity
- d. Inspiratory capacity

Answer: (a)

Question 7:

Mark the incorrect statement in context to O_2 binding to Hb

- a. Higher pH
- b. Lower temperature
- c. Lower pCO_2
- d. Higher PO_2

Answer: (d)

Question 8:

Mark the correct pair of muscles involved in the normal breathing in humans

- a. External and internal intercostal muscles
- b. Diaphragm and abdominal muscles
- c. Diaphragm and external intercostal muscles
- d. Diaphragm and internal intercostal muscles

Answer: (d)

Question 9:

Incidence of Emphysema – a respiratory disorder is high in cigarette smokers. In such cases

- a. The bronchioles are found damaged
- b. The alveolar walls are found damaged
- c. The plasma membrane is found damaged
- d. The respiratory muscles are found damaged

Answer: (b)