

Time : 1 hour 15 Minute

STD 11 Science Biology
chapter Based Test

Total Marks : 40

SECTION A

* Choose The Right Answer From The Given Options.[1 Marks Each] [5]

- In which part, gaseous exchange take place in rabbit?
(A) Trachea & alveolar duct (B) Trachea & bronchi
(C) Alveolar duct & alveoli (D) Alveoli & tissues
- After complete exhalation the lungs of a healthy man contains a litre of gas; this quantity is known as:
(A) Residual volume (B) Functional residual capacity
(C) Total lung capacity (D) Dead space
- What protects the moist membranes of the respiratory tract?
(A) Mucus and cilia. (B) A c shaped cartilage rings.
(C) A pebbly epidermal surface. (D) An acidic glands.
- Which of the following prevent collapsing of trachea?
(A) Muscles (B) Diaphragm
(C) Ribs (D) Cartilaginous rings
- Respiration in insects is called direct because:
(A) The cells exchange O_2/CO_2 directly with the air in the tubes.
(B) The tissues exchange O_2/CO_2 directly with coelomic fluid.
(C) The tissues exchange O_2/CO_2 directly with the air outside through body surface.
(D) Tracheal tubes exchange O_2/CO_2 directly with the haemocoel which then exchange with tissues.

* Answer The Following Questions In One Sentence.[1 Marks Each] [6]

- Why is respiration insect called direct?
- Gills of fish are red in colour. Why?
- Define the following terms?
Asthma.
- Give the vital capacity of the lungs of a normal adult person.
- Name the primary site of exchange of gases in our body?
- What is oxygen dissociation curve?

SECTION B

* Given Section consists of questions of 2 marks each. [10]

1. Give a chart of partial pressure of oxygen and carbon dioxide at different places in the respiratory system:
2. How does diaphragm help in inspiration?
3. Explain two steps in respiration.
4. Name the important parts involved in creating a pressure gradient between lungs and the atmosphere during normal respiration.
5. In normal breathing, which is the active process inspiration or expiration Explain.

SECTION C

* Given Section consists of questions of 3 marks each.

[9]

1. Explain the structure of thoracic chamber.
2. How is expiration carried out under normal physiological conditions?
3. Describe in proper sequence, the steps involved in pulmonary respiration in human beings.

SECTION E

* Given Section consists of questions of 5 marks each.

[10]

1. How does diaphragm facilitate respiration?
2. Explain various steps of respiration.

