



BIOLOGY

BOOKS - ICSE

RESPIRATORY SYSTEM

Exercises Tick The Most Appropriate Answer

1. The products of respiration are

A. carbon dioxide and oxygen.

B. oxygen and energy.

C. carban dioxide, water and energy.

D. carbon dioxide, oxygen and energy.

Answer:

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2. Glucose is oxidized to produce ethyl alcohol

during

A. excretion.

B. aerobic respiration.

C. anaerobic respiration.

D. photosynthesis.

Answer:

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3. Inside the chest, the trachea divides into

two branches called

A. bronchi.

B. bronchioles.

C. bronchus.

D. alveolus.

Answer:

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4. During inspiration, the diaphragm

A. moves up.

B. moves down.

C. remains at its position

D. moves up and down.

Answer:



5. Exhaled air contains

A. more carbon dioxide.

B. more oxygen.

C. more nitrogen.

D. more hydrogen.

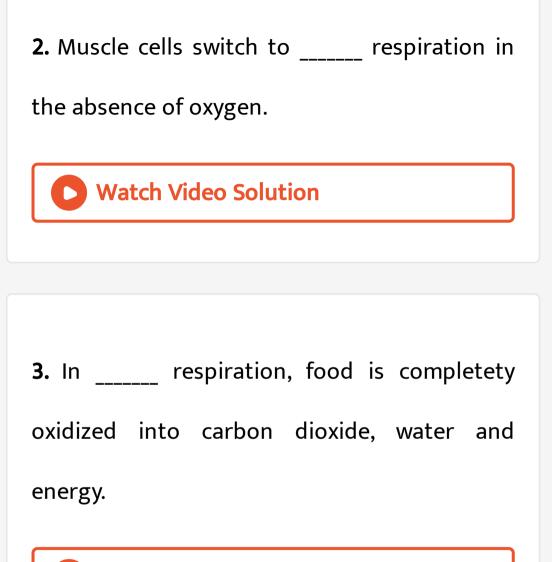
Answer:

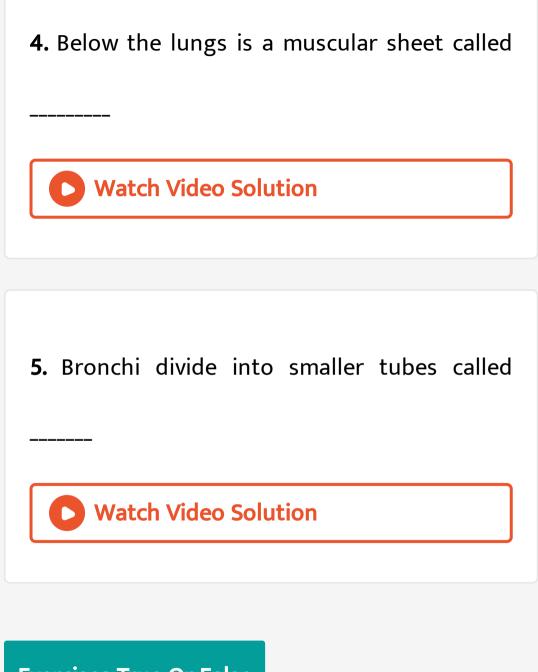
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Exercises Fill In The Blanks

1. The two types of respiration are _____ and







Exercises True Or False

1. The oxidation of food to release energy and

water is called breathing.



2. Anaerobic respiration takes place in our

bones when there is a shortage of oxygen.

3. The microscopic air sacs present in the

lungs are called alveoli.

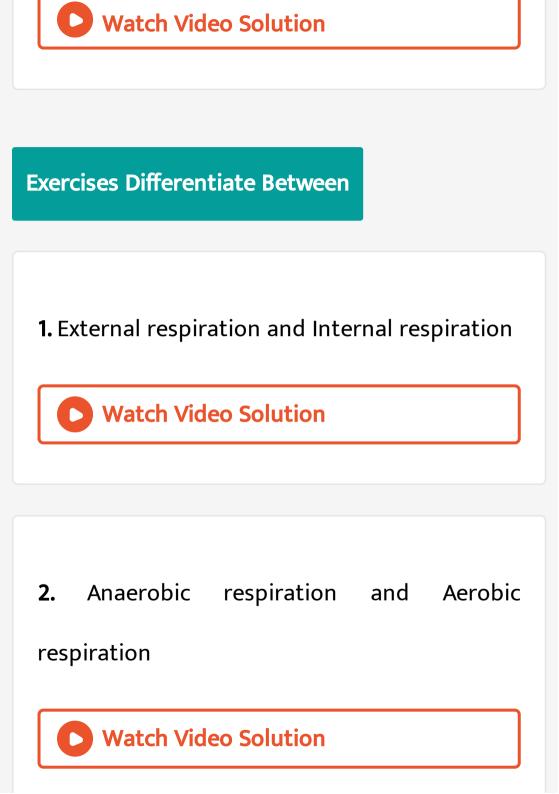
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4. The movement of ribs and diaphragm plays

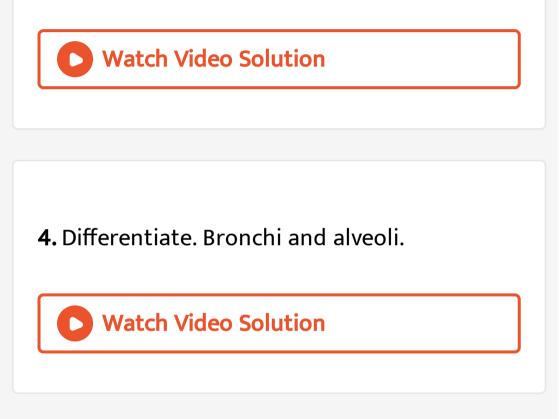
an important role in the breathing process.

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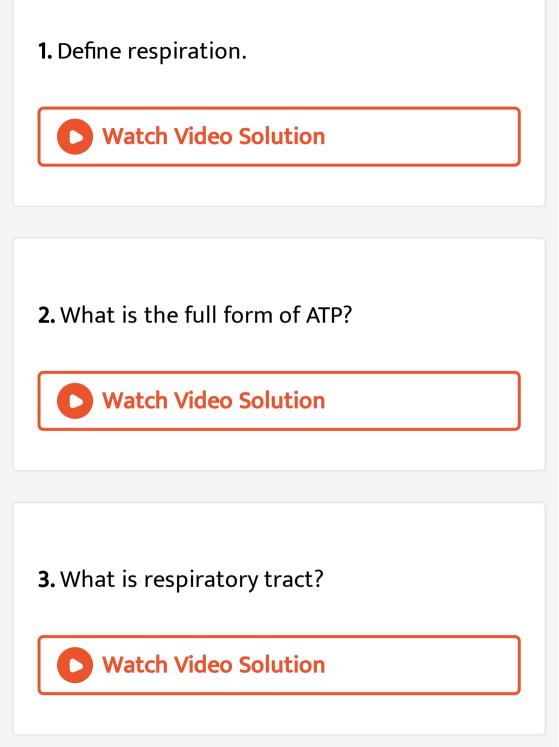
5. Bronchitis is caused by a bacterium.



3. Differentiate. tracheae and bronchi.



Exercises Answer The Following In Short



4. What is the function of pleural fluid?



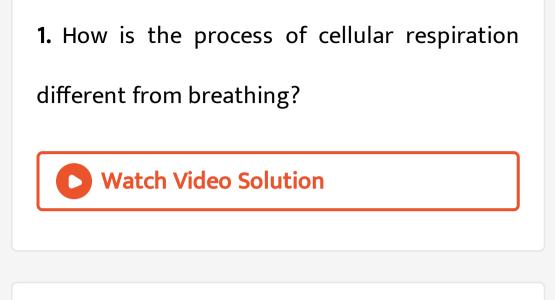
5. What is the contribution of the following in

breathing?

Diaphragm



Exercises Answer The Following In Detail



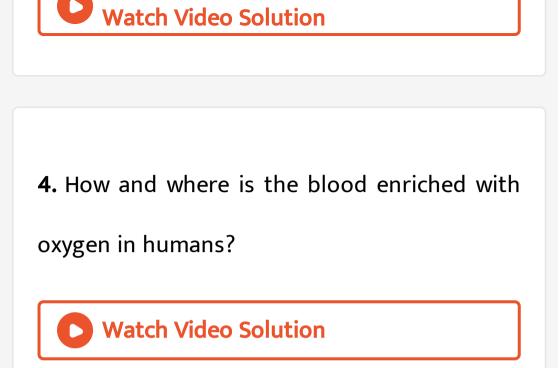
2. What is cellular respiration?



3. In human, what happens to oxygen after it is

inhaled through the nose?





5. With the help of labelled diagrams show the

mechanism of beathing in humans.

1. Given below are sets of five terms each. Rewrite the terms in correct order in a logical sequence beginning with the term that is underlined.

Nostrils, Pharynx, <u>Alveoli</u>, Larynx, Bronchioles

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Exercises Look At The Picture Given Below And Sanwer The Following Question 1. Name any one virus having RNA as their

genetic material.

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Check Your Progress Answer The Following In One Word

1. Which organ is called the voice box?

2. Name the two membranes covering the

lungs.



3. What is the muscular sheet below the lungs

called?

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4. Where does exchange of gases takes place?

5. What is formed when oxygen combines with

haemoglobin?

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Check Your Progress Answer These Question

1. External respiration and Internal respiration

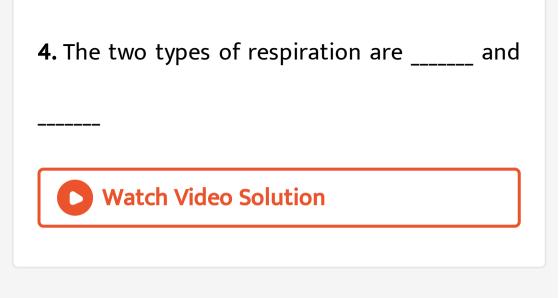
2. Write the equation to show the process of

respiration.

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3. In what form is the energy released during

respiration stored?



5. Why is less energy produced during anaerobic respiration than in aerobic respiration?

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Think And Answer

1. Breathing through nose is healthier than

breathing by mouth. Why?

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Test Yourself I Multiple Choice Questions

1. Oxidation of food that takes place in the presence of oxygen is called

A. Excretion

B. Respiration

C. Digestion

D. Transpiration

Answer:

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2. The products of respiration are

A. Only carbon dioxide

B. Carbon dioxide and water

C. Carbon dioxide, water and energy

D. Energy and carbon dioxide

Answer:



3. Name the layers through which the exchange of gases takes place in the lungs.

A. Respiration

B. Breathing

C. Combustion

D. Internal respirations

Answer:



Test Yourself Ii Fill In The Blanks

1. During respiration, when energy is released,

__ and _____ are also produced.

2. Anaerobic respiration takes place in

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3. Name the process by which the sun's energy

is trapped as the source of energy used by

virtually all living organisms :

1. Digestion of food involves breaking down of good componets into smaller molecules by enzymes. These enzymes are active only at certain hydrogen ion concentration. As a result, certain food combinations can facilitate or retard the process of digestion. Of the following combinations, one that can result in very efficient digestion is



2. The exchange of gases in the alveoli of the

lungs takes place by

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3. An infection of main airways of the lungs (bronchi).

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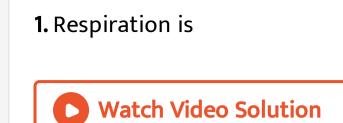
Test Yourself Iv Write True T Or False F In Front Of The Statements Given Below Delivering oxygen to cells and collecting carbon dioxide is called respiration.
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2. Write a balanced equation to represent

anaerobic respiration in plants.

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Test Yourself V Define The Following



2. Explain mechanism of breathing with neat

labelled diagram.

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3. For aerobic respiration to occur :

4. Anaerobic respiration

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Test Yourself Vi Differentiate Between The Following

1. What is the relation between aerobic cellular respiration, anaerobic cellular respiration and breathing?

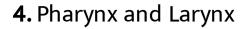
2. Differentiate between :

Respiration and Combustion

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3. Differentiate between Aerobic and

anaerobic respiration





Test Yourself Vii Answer The Following Quesitons

1. The products of respiration are

2. Write in short about the process of respiration.
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3. What are the respiratory diseases? Give

some examples.

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Review Questions Multiple Choice Questions

1. In humans, taking air through nostrils into the nasal cavity is called

A. Inhalation

B. Exhalation

C. Cellular respiration

D. Internal respiration

Answer:

2. The front opening of the wind pipe is guarded by -

A. Glottis

B. Exoglottis

C. Epiglottis

D. Trachea

Answer:

3. The process during which food is oxidised

and energy is released is called

A. Cellular respiration

B. Excretion

C. Digestion

D. Transpiration

Answer:

4. Why do our body cells require oxygen ?



Review Questions Short Answer Questions

1. What is the difference between breathing

and respiration ?

2. Name the by-products formed during the

oxidation of food.

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3. Name the agent which transports oxygen to

all parts of the body.

4. What is the role of epiglottis during swallowing ?
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5. Describe in brief the function of ribs and

diaphragm in breathing.

6. Name the gas which is expelled out during expiration. Where is it originally produced in our body?



7. Name the following.

Respiratory process in which oxygen is not

utilized

8. Name the following.

Respiratory process in which oxygen is utilized

0	Watch Video Solution	

9. Name the following.

The microscopic air-sacs of the lungs

10. Name the following.

The two membranes which protect the lungs



Review Questions Long Answer Questions

1. Why is a respiratory system necessary ?

2. What factors are most likely to affect the

breathing rate ?

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3. What happens to the energy liberated

during respiration ?



4. What do you understand by inhalation and exhalation ? How are they different from each other ?



5. What do you understand by the term respiratory diseases ? Name any three

common respiratory diseases.



6. State the cause and treatment for the

following diseases -

(i) Tuberculosis

(ii) Pneumonia

(iii) Bronchitis