



BIOLOGY

NCERT - NCERT Biology(HINGLISH)

RESPIRATION IN ORGANISMS



1. Why does an athlete breathe faster and

deeper than usual after finishing the race?

2. List the similarities and differences between

aerobic and anaerobic respiration.



3. Why do we often sneeze when we inhale a

lot of dust-laden air?

4. Take three test-tubes. Fill 3/4th of each with water. Label them A, B and C. Keep a snail in test-tube A, a water plant in testtube B and in C, keep snail and plant both. Which test-tube would have the highest concentration of CO_2

?



5. Match the items in Column I with those in Column II:

Column I	Column II
(a) Yeast	(i) Earthworm
(b) Diaphragm	(ii) Gills
(c) Skin	(iii) Alcohol
(d) Leaves	(iv) Chest cavity
(e) Fish	(v) Stomata
(f) Frog	(vi) Lungs and skin



6. Given below is a square of letters in which are hidden different words related to respiration in organisms. These words may be present in any direction - upwards, downwards, or along the diagonals. Find the

words for your respiratory system. Clues about

those words are given below the square.

S	v	М	P	L	U	N	G	S
с	Z	0	Q	w	x	N	т	L
R	м	A	Т	I	D	0	T	С
L	Ŷ	R	x	Y	м	s	R	۸
в	R	Н	T	A	N	Т	A	Y
s	т	Р	т	B	z	R	С	Е
м	I	A	М	T	5	1	H	A
s	Р	I	R	A	c	L	E	s
N	Е	D	ĸ	J	N	s	A	Т

- (i) The air tubes of insects
- (ii) Skeletal structures surrounding chest cavity
- (iii) Muscular floor of chest cavity

(iv) Tiny pores on the surface of leaf

(v) Small openings on the sides of the body of an insect

(vi) The respiratory organs of human beings

(vii) The openings through which we inhale

(viii) An anaerobic organism

(ix) An organism with tracheal system



7. The mountaineers carry oxygen with them

because:

A. At an altitude of more than 5 km there is

no air.

B. The amount of air available to a person

is less than that available on the ground.

C. The temperature of air is higher than

that on the ground.

D. The pressure of air is higher than that

on the ground.

Answer: B

Exercise Tick The Correct Answer

1. In cockroaches, air enters the body through:

A. lungs

B. gills

C. spiracles

D. skin

Answer:





2. During heavy exercise, we get cramps in the

legs due to the accumulation of

A. carbon dioxide

B. lactic acid

C. alcohol

D. water

Answer:

3. Normal range of breathing rate per minute in an average adult person at rest is

- A.9 12
- B.15 18
- $\mathsf{C.}\,21-24$
- $\mathsf{D.}\,30-33$

Answer:



4. During the process of exhalation, the ribs

move

A. move outwards

B. move downwards

C. move upwards

D. do not move at all

Answer:

1. During heavy exercise the breathing rate of

a person slows down. (T/F)

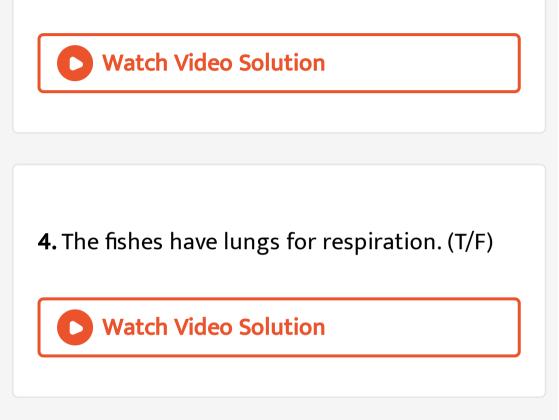
Watch Video Solution

2. Plants carry out photosynthesis only during

the day and respiration only at night. (T/F)

3. Frogs breathe through their skins as well as

their lungs. (T/F)



5. The size of the chest cavity increases during

inhalation. (T/F)

