

# CLASS NOTES

Class: VII

Topic: Extra MCQs and Diagrams

Subject: Science

Chapter 10 : Respiration in Organisms

## Objective type questions

**Q1. Breathing rate in human beings in normal condition is-**

- (a) 12-15 times in a minute.
- (b) 15-18 times in a minute.
- (c) 18-22 times in a minute.
- (d) 22-25 times in a minute.

**Q2. Chest cavity is surrounded by-**

- (a) 10 pairs of ribs.
- (b) 12 pairs of ribs.
- (c) 11 pairs of ribs.
- (d) 25 pairs of ribs.

**Q3. Which of the following animals can breathe through lungs as well as skin-**

- (a) Frog
- (b) Fish
- (c) Crocodile
- (d) Earthworm

**Q4. Breathing is a-**

- (a) biochemical process.
- (b) biological process.
- (c) chemical process.
- (d) physical process.

**Q5. Muscular floor of chest cavity is called-**

- (a) Rib cage
- (b) Diaphragm
- (c) Trachea
- (d) Bronchus

**Q6. Match the following columns I and II:**

Column I	Column II
(p) fish	(i) skins
(q) insects	(ii) gills
(r) earthworm	(iii) stomata
(s) plants	(iv) spiracles

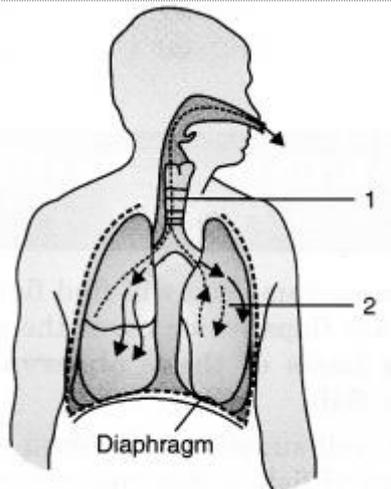
(a) p -iv, q -iii, r -ii, s- i

(b) p -ii, q -iv, r -i, s- iii

(c) p -i, q -iii, r -iv, s- ii

(d) p -iv, q -iii, r -i, s- ii

**Q7. In the following figure of respiratory system, organs labelled 1 and 2 are respectively:**



**Fig. Respiratory system**

- (a) Tracheae, Lungs
- (b) Lungs, Tracheae
- (c) Nasal cavity, Lungs
- (d) Lungs, Nasal cavity

**Q8. Sometimes when we do heavy exercise, anaerobic respiration takes place in our muscle cells. What is produced during this process?**

- (a) Alcohol and lactic acid.
- (b) Alcohol and CO<sub>2</sub>
- (c) Lactic acid and CO<sub>2</sub>
- (d) Lactic acid

**Q9. Yeast is used in wine and beer industries because it respire.**

- (a) aerobically producing oxygen.
- (b) aerobically producing alcohol.
- (c) anaerobically producing alcohol.
- (d) anaerobically producing CO<sub>2</sub>.

**Q10. Name the organ of the body in which the blood is oxygenated.**

- (a) Heart
- (b) Lungs
- (c) Liver
- (d) Pancreas

**Q11. An example of aerobes is**

- (a) cat
- (b) dog
- (c) human being
- (d) all of these

**Q12. Name the type of respiration which causes muscle cramps.**

- (a) Aerobic respiration
- (b) Anaerobic respiration
- (c) Both (a) and (b)
- (d) None of these

**Q13. In the cells, oxygen is used to break down glucose into**

- (a) carbon dioxide, water and energy.
- (b) fats.
- (c) alcohol, carbon dioxide and energy.
- (d) lactic acid, water and energy.

**Q14. Which of the following is incorrect statement?**

(a) The fishes have lungs for respiration.

(b) The number of times a person breathes in a minute is termed as the breathing rate.

(c) The process of breakdown of food in the cell with the release of energy is called cellular respiration.

(d) Breathing is a physical process.

**Q15. The gaseous exchange during the respiration in animals happens in**

(a) Bronchi

(b) Trachea

(c) Lungs

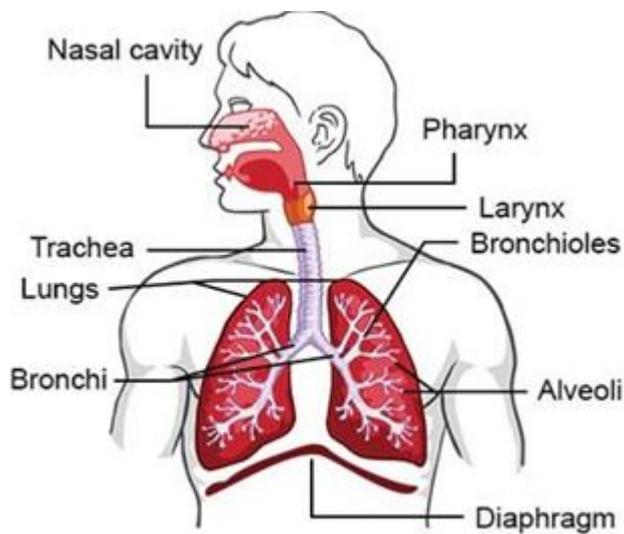
(d) Alveoli

**Short Answer:**

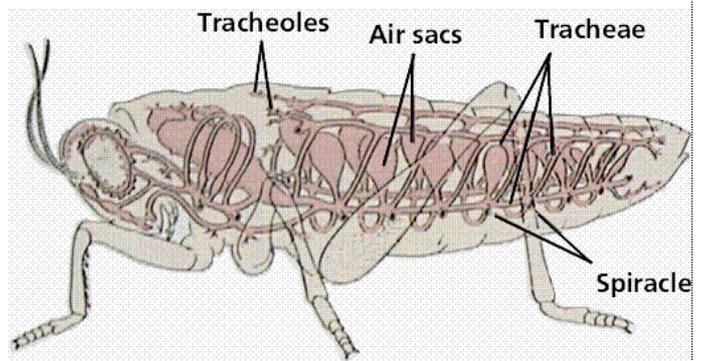
**Can you guess what would happen if a potted plant having underground roots is overwatered?**

Answer. The root hairs have tiny pores open for respiration. If we over-watered the plant, the spaces between the soil particles are occupied by water. So the roots do not get oxygen from the air spaces and the plant will die.

**Diagrams:**



Human Respiratory System



Tracheal system of cockroach