

1. How is respiration different from breathing
2. Define respiration.
3. Differentiate between Aerobic & Anaerobic respiration.
4. Write equations for:
 - (a) Aerobic respiration
 - (b) Anaerobic respiration in yeast
 - (c) Anaerobic respiration in muscles.
5. Why do we get muscle cramps?
6. How do muscle cramps get relived by hot water bath or oil massage.
7. Write the organ of breathing for: man, fish, tadpole, frog, cockroach, earthworm.
8. Differentiate between respiration and breathing.
9. Distinguish between Inhalation & Exhalation.
10. Describe the process of inhalation.
11. Describe the process of exhalation.
12. How is it that we do not die even if we hold our breath for sometime.
13. Draw a labelled diagram for human respiratory system.
14. Define the term breathing rate.
15. What is the normal breathing rate for human beings?
16. How do we maximise our oxygen intake during heavy exercise.
17. Why do we sneeze?
18. How does smoking harm our lungs?
19. Name the organs involved in breathing. Which of these move to bring about breathing.
20. How is the space of chest cavity increased?
21. Show the mechanism of breathing with a diagram.
22. What is the role of rib cage in breathing?
23. What is the role of diaphragm in breathing.
24. Why do we sneeze?
25. How does human respiratory system avoid contaminants in air?
26. What is the movement of ribs and diaphragm while breathing?
27. What happens to lime water $[Ca(OH)_2]$ if we blow (exhale) an into it?
28. Explain the composition of inhaled & exhaled air.
29. Explain the breathing in
 - (a) cockroach
 - (b) fish
 - (c) earthworm
30. Explain these terms:

(a) Trachea

(b) Spiracles

(c) Gills

31. How do insects breathe? Explain.
32. What are the features necessary for a surface to allow exchange of gases (breathing).
33. How does breathing in frog differ from breathing in tadpoles?
34. What advantage does a moist and slippery skin of frog have?
35. Why do whales and dolphins often come up to the surface of water and also blow fountains of water?
36. Do plants also respire? Explain
37. What is the role of stomata in plants?
38. How do roots breathe?
39. A woman went on a vacation and over-watered her plants. When she got back. She found that the plants had died. Explain. Why?
40. Do all living things respire? Why?
41. Why do they say that we should not sleep under a tree at night?