

## RESPIRATION IN ORGANISMS

F.M.- 10

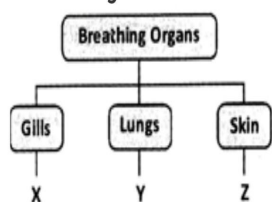
1. Yeast is used in wine and beer industry because it respire. (1)

- a. Aerobically producing oxygen
- b. Aerobically producing alcohol
- c. Anaerobically producing alcohol
- d. Anaerobically producing Carbon dioxide

2. Our muscle cells can also respire anaerobically, but only for a short time, when there is a temporary deficiency of oxygen. During heavy exercise, fast running, cycling, walking for many hours or heavyweight lifting, the demand for energy is high. But the supply of oxygen to produce the energy is limited. Then anaerobic respiration takes place in the muscle cells to fulfill the demand of energy. (1×4=4)

- 1. Why do the muscle cells respire anaerobically?
- 2. Which substance causes muscle cramps during strenuous workout or any other hardcore training?
- 3. Give the equation for anaerobic Respiration in humans.
- 4. How is lactic acid broken down in the body?

3. The classification table given below shows how different organisms breathe. (1)

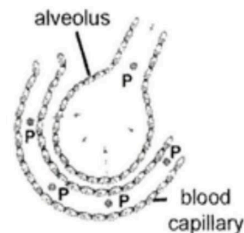


Which of these organisms are correctly represented by X, Y and Z?

- a. X- Dolphin
- b. Y- Leech
- c. Z - Earthworm
- d. All of the above

4. Gas P diffuses from a capillary into an alveolus in the lungs. When is gas P expelled out from the alveolus ? (1)

- a. During inhalation
- b. During exhalation
- c. During perspiration
- d. During inspiration



5. When we release our breath after holding it for some time, we had to breathe heavily. Why it was so? (1)

6. Why do we often sneeze when we inhale a lot of dust-laden air? (2)

