

Chapter-4

Worksheet-1

1. The raw material for cellular respiration is
 - (a) glucose
 - (b) sucrose
 - (c) fructose
 - (d) starch

2. Choose which among the following can breathe through lungs as well as through skin?
 - (a) Fish
 - (b) Frog
 - (c) Earthworm
 - (d) Dolphin

3. Spiracles on the body of insect are connected to a network of thin air tubes called
 - (a) lungs
 - (b) tracheae
 - (c) gills
 - (d) blow holes

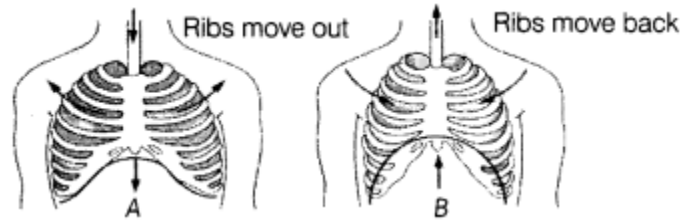
4. Yeasts are used in
 - (a) wine and beer industry
 - (b) bakery industry
 - (c) Both (a) and (b)
 - (d) None of these

5. Diaphragm forms the _____ of the chest cavity.

6. Exchange of gases in the leaves takes place with the help of _____.

7. 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_2
 - (c) Lactic acid and CO_2
 - (d) Lactic acid only
8. The breakdown of food in cells using oxygen with the release of energy is called _____.
9. _____ turns limewater milky.
10. The exchange of gases in the leaves of plants takes place through _____.
11. Which organ extracts dissolved oxygen from water in fishes?
12. Name the term used for one inhalation plus one exhalation.
13. The process of fermentation is based on which principle?
14. Which special organs of respiration are found only in insects and not in any other group of animals?
15. Name one organism who respire anaerobically. How does this organism help in beverage and baking industry?
16. Frogs are amphibians. They survive on land and water, do they have any respiratory issue? How does frog breathe when they are in water? Do they possess lungs? Explain the role of lungs in frogs.
17. It is not wise to sleep under a tree during night. Why?

18. Observe the given figures as A and B and answer the following questions.



(a) Among both figures identify which A or B indicates the process of inhalation and which shows the process of exhalation?

(b) In the figure label the arrows and indicate the direction of

- (i) movement of air
- (ii) movement of diaphragm
- (iii) movement of ribs

19. Respiration in fish is different from humans. Explain in brief how fishes can breathe through gills?

20. Respiration can occur in two different manners. Briefly explain the process of aerobic respiration. How does it differ from anaerobic respiration?