



Topics:- BI-14,17,18 &19

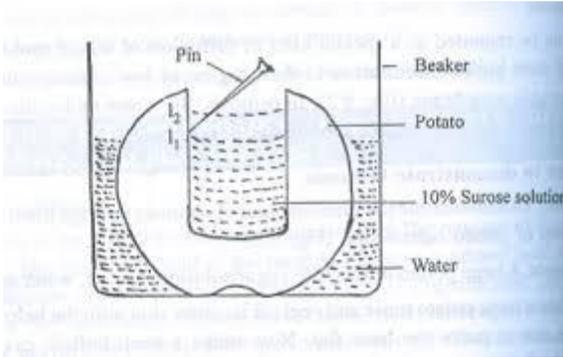
Short Answer type and HOT Questions

1. What is Respiration? What are the products of respiration in yeast?
2. How exchange of gases takes place in human lungs?
3. Compare the breathing mechanisms of earthworms and fish.
4. Explain the two ways of respiration in a frog.
5. Why do we get muscle cramps after heavy exercise?
6. What is the difference between aerobic and anaerobic respiration. Write equations for both.
7. What is the role of diaphragm in breathing process?
8. What materials need to be transported in plants? Why?
9. Why is transpiration useful for plants?
10. Why is transportation of water and food important for plants?
11. What happens when a leaf of bryophyllum falls on moist soil?
12. Write two examples of plants in which roots can give rise to a plant.
13. What are the constituents of pistil?
14. From where does Fungi grow on a bread piece?
15. Name two organisms which reproduce by budding.
16. Differentiate between:-
 - a. Asexual and sexual reproduction
 - b. Self pollination and cross pollination
17. What will happen if yeast is added to cake batter? Why does this happen?
18. What can you say about the role of the flower in the life cycle of a plant?
19. On an average, an adult human being at rest breathes 15-18 times per minute. The breathing rate, however, may differ under different conditions. Arrange the following activities given in the box in order of increasing breathing rates and give reason for your answer.
Sleeping, Cycling, Brisk walk, Watching T.V

20. Match the names of organisms in column I with their organs of breathing given in column II.

Column I	Column II
a. Butterfly	i. lungs
b. earthworms	ii. gills
c. sparrow	iii. spiracles
d. fish	iv. skin

21. Look at figure, explain this activity of osmosis.



22. In the diagram given, label the parts mark a,b,c.

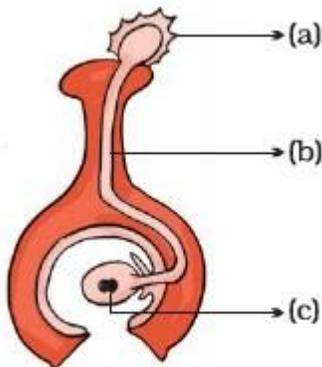
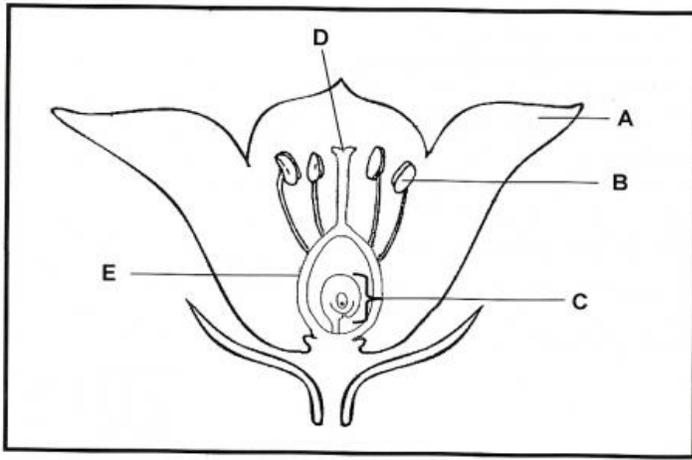


Fig. 12.2

23. In the diagram given, label the parts mark a,b,c,d and e



Long answer type questions

1. Describe the different types of respiration in organisms?
2. Explain the process of Osmosis.
3. Explain the structure and functions of Xylem.
4. Why do plants lose water? How does the loss of water help plants?
5. Describe the various ways by which seeds are dispersed.
6. Write 4 advantages of Vegetative propagation.
7. How is fertilization brought about in a flower?
8. Why are flowers known as reproductive parts of a plant?