



BIOLOGY

BOOKS - PSEB

BREATHING AND EXCHANGE OF GASES

Exercise

1. Distinguish between: Vital capacity and Total lung capacity.



Watch Video Solution

2. State the volume of air remaining in the lungs after a normal breathing.



[Watch Video Solution](#)

3. Diffusion of gases occurs in the alveolar region only and not in the other parts of respiratory system. Why?



[Watch Video Solution](#)

4. What are the major transport mechanisms for CO_2 ? Explain.



[Watch Video Solution](#)

5. Explain the process of inspiration under normal conditions.



[Watch Video Solution](#)

6. How is respiration regulated?





[Watch Video Solution](#)

7. What is the effect of pCO_2 on oxygen transport?



[Watch Video Solution](#)

8. What happens to the respiratory process in a man going up a hill?



[Watch Video Solution](#)

9. What is the site of gaseous exchange in an insect?



Watch Video Solution

10. Define oxygen dissociation curve. Can you suggest any reason for its sigmoidal pattern?



Watch Video Solution

11. Have you heard about hypoxia? Try to gather information about it, and discuss with

your friends.



Watch Video Solution

12. Distinguish between: IRV and ERV



Watch Video Solution

13. Distinguish between: Inspiratory capacity and Expiratory capacity.



Watch Video Solution

14. Distinguish between: Vital capacity and Total lung capacity.



Watch Video Solution

15. What is Tidal volume? Find out the Tidal volume (approximate value) for a healthy human in an hour.



Watch Video Solution