



BIOLOGY

BOOKS - SUPER COMPANION 5 IN 1

BREATHING AND EXCHANGE OF GASES

One Mark Questions And Answers

1. What are the protective covering of lung called ?



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2. How is food prevented from entering the trachea ?



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3. What type of muscle is found in diaphragm?



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4. What is meant by pulmonary ventilation ?



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5. What is bronchitis ?



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6. What is asthma ?



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7. What is emphysema ?



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8. What is tidal air volume ?



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9. State the name of the volume of air remaining in the lungs, after a normal breathing.



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10. Name the primary site of exchange of gases in our body.



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11. A major percentage (97%) of oxygen is transported by RBCs in blood. How does the remaining percentage (3%) of O_2 gets transported ?



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Two Mark Questions And Answers

1. Explain transport of carbon dioxide by haemoglobin.



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2. Explain Hamburger's phenomenon.



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3. What are the changes that takes place during inspiration?



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4. Write any four differences between inspiration and expiration.



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5. Briefly explain external respiration.



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6. Differentiate external respiration from internal respiration.



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7. Haemoglobin is an Oxygen carrier. Explain.



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8. Mention the function of nasal cavity during breathing.



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9. Mention the various parts of human respiratory system in their connect sequence.



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10. Define vital capacity . What is its significance?



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11. How is respiration regulated?



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12. What is the effect of P_{CO_2} on oxygen transport?



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13. What happens to the respiratory process in a person going up a hill ?



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



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



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



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17. A fluid-filled double membranous layer surrounds the lungs. Name it, and mention its important functions.



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18. Arrange the following terms based on their volumes in an ascending order (a) Tidal volume (TV), (b) Residual Volume (RV), (c) Inspiratory Reserve Volume (IRV) , (d) Expiratory Capacity (EC)



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19. Complete the missing terms :

(a) Inspiratory Capacity (IC) = + IRV

(b) = $TR + ERV$



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20. State the different modes of CO_2 transport in blood.



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21. For completion of the respiration process, write the given steps in their proper sequence tail manner.

(a) Diffusion of gases (O_2 , and CO_2) across alveolar membrane.

(b) Transport of gases by blood.

(c) Utilisation of O_2 by the cells for catabolic reactions and resultant release of CO_2 .

(d) Pulmonary ventilation by which, atmospheric air is drawn in and CO_2 rich alveolar air is released out.

(e) Diffusion of O_2 , and CO_2 between the tissues.



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Three Marks Questions With Answers

1. Distinguish between IRV and ERV



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2. Distinguish between Inspiratory capacity and Expiratory capacity.



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3. Distinguish between Vital capacity and Total lung capacity.



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4. Define the following terms :

Tidal volume



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5. Define the following terms :

Residual volume



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6. Define the following terms :

Asthma



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7. Name the organs of respiration in the following organisms :

Flatworm



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8. Name the organs of respiration in the following organisms :

Birds



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9. Name the organs of respiration in the following organisms :

Birds



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Five Mark Questions And Answers

1. What is breathing ? Explain the mechanism.



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2. Explain transport of carbon dioxide by the blood.



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3. Describe the structure of human respiratory system.



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4. Explain the mechanism of breathing.



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