



BIOLOGY

NCERT - NCERT BIOLOGY(ENGLISH)

BREATHING AND EXCHANGE OF GASES



1. Define vital capacity. What is its significance?

2. State the volume of air remaining in the

lungs after a normal breathing.

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

4. What are the major transport mechanisms

for CO_2 ? Explain.

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5. What will be the pO_2 and pCO_2 in the atmospheric air compared to those in the alveolar air?

(i) pO_2 lesser, pCO_2 higher

(ii) pO_2 higher, $pCO_2 \leq sser(iii)$ pO_(2)

higher, pCO_(2) higher

(iv) pO_2 lesser, pCO_2 lesser



6. Explain the process of inspiration under

normal conditions.

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7. How is respiration regulated?

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



9. What happens to the respiratory process in

a man going up a hill?

10. What is the site of gaseous exchange in an

insect?

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11. Define oxygen dissociation curve. Can you

suggest any reason for its sigmoidal pattern?

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



- 13. Distinguish between
- (a) IRV and ERV
- (b) Inspiratory capacity and Expiratory capacity
- (c) Vital capacity and Total lung capacity



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

