BIOLOGY

BOOKS - KUMAR PRAKASHAN KENDRA

BIOLOGY (GUJRATI ENGLISH)

BREATHING AND EXCHANGE OF GASES

Section E Solution Of Ncert Exemplar Long Answer Type Questions

1. Explain the transport of O_2 and CO_2 between alveoli and tissue with diagram.

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2. Explain the mechanism of breathing with neat labelled sketches.

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3. Explain the role of neural system in regulation of respiration.

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Questions From Module Important Mcq For Neet

1. In lungs, definite ions are exchanged between RBC and blood plasma. It shows release of CO_2 from blood.

(A) External transport of Cl^- in RBC

(B) Internal transport of Cl^- in RBC

(C) Internal transport of HCO_3^- in RBC

(D) External transport of HCO_3^- in RBC

A. External transport of Cl^- in RBC

B. Internal transport of Cl^- in RBC

C. Internal transport of HCO_3^- in RBC

D. External transport of HCO_3^- in RBC

Answer: A

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2. Which of the following is called Hamburgers shift ?

(A) Chloride shift

(B) Bicarbonate shift

(C) Chloride shift

(D) Sodium shift

A. Hydrogen shift

B. Bicarbonate shift

C. Chloride shift

D. Sodium shift

Answer: C

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3. When concentration of CO_2 is less in blood then respiration is ..... .

(A) Slow and deep

(B) Fast and deep

(C) Shallow and slow

(D) No effect on respiration

A. Slow and deep

B. Fast and deep

C. Shallow and slow

D. No effect on respiration

Answer: B

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4. We can not breath for few seconds after taking a long and deep breath

(A) There is much CO_2 in blood so

(B) There is much O_2 in blood so

(C) There is less CO_2 in blood so

(D) There is loss O_2 in blood so

A. There is much CO_2 in blood so

B. There is much O_2 in blood so

C. There is less CO_2 in blood so

D. There is loss O_2 in blood so

Answer: C

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5. In lungs $PO_2 =$ .....

A. 100 mm Hg

B. 104 mm Hg

C. 40 mm Hg

D. 60 mm Hg

Answer: A

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Questions From Module Question Paper

1. After normal breathing, give volume of air in lungs.

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2. why diffusion of air occurs only in alveolar region and not in other parts of respiratory system ?

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3. Why all factors of body are favourable for diffusion of O_2 from alveoli to tissues and of CO_2 from tissue cells to alveolis ?

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4. In chronic bronchitis, which is the most affected region ?

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5. Explain the terms : FRC, IC

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6. Which structure is present for gasesous exchange in insects ?

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7. What is the effect on a respiratory system of a person who climbs mountain ?

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8. Define : Oxygen dissociation curve. Can you give reason for its sigmoid appearance ?

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9. What is meant by tidal volume ? Find tidal volume (approx.) of a healthy person in 1 hour.

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10. Mention the stages of respiration.

11. Explain the role of neural system in regulation of respiration.