ARJUNA (NEET)

Breathing and Exchange of Gases

DPP-04

1. Hemoglobin that is bonded to carbon monoxide and therefore cannot transport oxygen, is called
(A) Carboxyhemoglobin
(B) Methemoglobin
(C) Reduced hemoglobin
(D) Carbaminohemoglobin

2. Which of the following does not shift the oxyhaemoglobin dissociation curve to the right?
(A) Increase pH
(B) Increased carbon dioxide
(C) Increased temperature
(D) Increased 2, 3-DPG

3. The partial pressure of oxygen is equal to
(A) Atmospheric air and Alveoli
(B) Alveoli and oxygenated blood
(C) Alveoli and Deoxygenated blood
(D) Deoxygenated blood and Tissues

4. The solubility of carbon dioxide is about times higher than that of oxygen across the respiratory membrane.
(A) 20-25 (B) 25-50
(C) 125-150 (D) 200-250

5. The partial pressure of oxygen in the alveoli of the lungs is
(A) equal to that in the blood
(B) more than that in the blood
(C) less than that in the blood
(D) less than that of carbon dioxide

6. A large proportion of oxygen is left unsused in the human blood even after its uptake by the body tissues. This O_2
(A) raises the P_{CO2} of blood to 75 mm of Hg
(B) is enough to keep oxyhaemoglobin
(C) helps in relasing more O_2 to the epithelial tissues
(D) acts as a reserve during muscular exercise

7. Oxyhemoglobin dissociates into oxygen and deoxyhaemoglobin at
(A) low O_2, pressure in tissue
(B) high O_2, pressure in tissue
(C) equal O_2, pressure inside and outside tissue
(D) all times irrespective of O_2, pressure

8. The haemoglobin content per 100 ml of blood of a normal healthy human adult is:
(A) 5-11 g (B) 25-30 g
(C) 17-20 g (D) 12-16 g

9. Which of the following is a true statement?
(A) Oxygen binding with Hb is a reversible process
(B) Oxygen binding with Hb is an irreversible process
(C) Hb is not a protein
(D) It's not a pigment

10. The binding of Hb with oxygen forms
(A) Methamoglobin
(B) Carbhaminohaemoglobin
(C) Oxyhaemoglobin
(D) Carbaminohaemoglobin

11. Each Hb can carry a maximum of _____oxygen molecules.
(A) 2 (B) 4
(C) 8 (D) 6

Answer Key

1. (A)
2. (A)
3. (D)
4. (A)
5. (B)
6. (D)
7. (A)
8. (D)
9. (A)
10. (C)
11. (B)