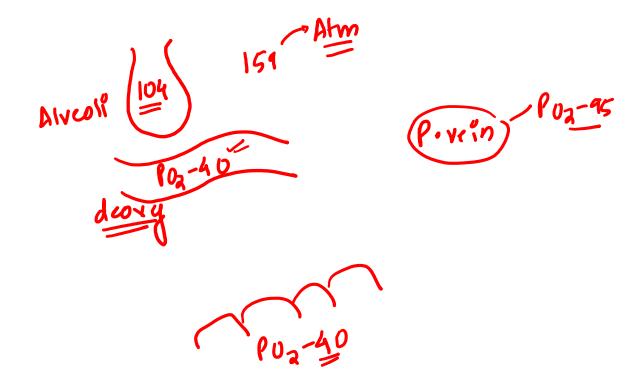
- Hemoglobin that is bonded to carbon monoxide and therefore cannot transport oxygen, is called
  - (A) Carboxyhemoglobin
  - (B) Methemoglobin
  - (C) Reduced hemoglobin
  - (D) Carbaminohemoglobin

10021Hb

O affinity 200-250 Hb Binding effiency

- Which of the following does not shift the oxyhaemoglobin dissociation curve to the right?
  - (X) 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

- 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
  - (e) 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<sub>2</sub>
  - (A) raises the P<sub>CO2</sub> of blood to 75 mm of Hg
  - (B) is enough to keep oxyhaemoglobin
  - (C) helps in relasing more O<sub>2</sub> to the epithelial tissues
  - (D) acts as a reserve during muscular exercise

Extra Onuscular (xe-1842

7. Oxyhemoglobin dissociates into oxygen and deoxyhaemoglobin at

(A) low O<sub>2</sub>, pressure in tissue

(B) high O<sub>2</sub>, pressure in tissue

(C) equal O<sub>2</sub>, pressure inside and outside tissue

(D) all times irrespective of O2, pressure

Shift to Right

Chift to Left

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

1946 -> 1.34ml 02 16946-> 100ml Blood 100ml Blood -> 20ml 02

- 9. Which of the following is a true statement?

  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

Hb102 = Hb02

Oxygenation

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

    - Carbaminohaemoglobin 602

- 11. Each Hb can carry a maximum of \_\_\_oxygen molecules.
  - (A) 2
  - (C) 8

(D) 6

