

### **Structure and function of Hemoglobin as a respiratory pigment**

- 1) Made up of \_\_\_\_\_ known as globin in red blood cells quaternary
- 2) Conjugated protein with a \_\_\_\_\_ structure heme
- 3) Consists of 4 \_\_\_\_\_ chains protein
- 4) Each chain attached to one \_\_\_\_\_ group iron
- 5) An \_\_\_\_\_ atom is located at the centre of heme group four
- 6) Each iron atom can bind with \_\_\_\_\_ molecule of O<sub>2</sub> polypeptide
- 7) One Hb molecule can binds with \_\_\_\_\_ O<sub>2</sub> molecules reversibly

### **Hemoglobin as respiratory pigment**

- 8) Has \_\_\_\_\_ affinity to O<sub>2</sub> although the partial pressure of O<sub>2</sub> is \_\_\_\_\_ low
- 9) Can \_\_\_\_\_ O<sub>2</sub> easily when partial pressure of O<sub>2</sub> drops release
- 10) Can bind \_\_\_\_\_ with O<sub>2</sub> High
- 11) Can bind & releases O<sub>2</sub> molecule \_\_\_\_\_. cooperatively
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