

Higher Combined version — Higher Tier (★) included; Separate-only (◆) removed.

Q1. Describe the mechanism of inhalation.

[3 marks]

Q2. Explain how O₂ is transferred from alveoli to the blood.

[2 marks]

Total: 5 marks

Q1 (3 marks)

Describe the mechanism of inhalation.

- Diaphragm contracts → moves down [1]
- Intercostal muscles contract → ribcage moves up and out [1]
- Lung volume increases → pressure decreases → air flows in [1]

Q2 (2 marks)

Explain how O₂ is transferred from alveoli to the blood.

- O₂ concentration is higher in alveoli than in blood [1]
- O₂ diffuses down concentration gradient from alveoli into capillary blood [1]