

Foundation Separate version — Higher Tier (★) questions removed.

**Q1. Explain why the mammalian circulation is called a double circulatory system.**

[3 marks]

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**Q2. Compare arteries and veins. Link each structural feature to its function.**

[3 marks]

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**Total: 6 marks**

**Q1 (3 marks)**

*Explain why the mammalian circulation is called a double circulatory system.*

- Right side pumps deoxygenated blood to lungs (pulmonary circulation) [1]
- Left side pumps oxygenated blood to body (systemic circulation) [1]
- Two separate circuits — prevents mixing of oxygenated and deoxygenated blood [1]

**Q2 (3 marks)**

*Compare arteries and veins. Link each structural feature to its function.*

- Arteries: thick elastic walls — withstand and smooth high pressure from heart [1]
- Veins: valves — prevent backflow of low-pressure blood [1]
- Arteries: narrow lumen maintains pressure; veins: wide lumen reduces resistance [1]