

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

**Q1. Explain why the left ventricle has thicker walls than the right ventricle.**

[2 marks]

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**Q2. Compare arteries, veins and capillaries in terms of structure and function.**

[4 marks]

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**Total: 6 marks**

**Q1 (2 marks)**

*Explain why the left ventricle has thicker walls than the right ventricle.*

- Left ventricle pumps blood to the whole body — much longer circuit [1]
- Needs to generate higher pressure — thicker walls contract more forcefully [1]

**Q2 (4 marks)**

*Compare arteries, veins and capillaries in terms of structure and function.*

- Arteries: thick elastic walls, small lumen — withstand high pressure from heart [1]
- Veins: valves, large lumen — prevent backflow, low pressure [1]
- Capillaries: one cell thick — minimal diffusion distance for exchange [1]
- Capillaries: dense network — close to every cell [1]