

Question Number	Answer	Additional Guidance	Mark
5(a)(i)	<ul style="list-style-type: none"> <li>• correct figures from graph</li> <li>• correct answer with unit</li> </ul>	<p><u>Example of calculation</u> e.g. 120 and 1.6 or 60 and 0.8</p> <p><math>120 \div 1.6</math> / <math>60 \div 0.8</math></p> <p>75 <u>bpm</u></p>	(2)

Question Number	Answer	Mark
5 (a)(ii)	<p><b><i>The only correct answer is B as antihypertensives lower blood pressure</i></b></p> <p><i>A is not correct because anticoagulants do not reduce blood pressure</i></p> <p><i>C is not correct because cholesterol does not reduce blood pressure</i></p> <p><i>D is not correct because platelet inhibitors do not reduce blood pressure</i></p>	(1)

Question Number	Answer	Additional Guidance	Mark
5(b)(i)	<p>An explanation that makes reference to the following:</p> <ul style="list-style-type: none"> <li>• right (1)</li> <li>• because the pressure is lower (in blood transported from heart to the lungs) (1)</li> </ul>		(2)

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5(b)(ii)	<p><b>The only correct answer is A because it carries blood under high pressure away from the heart</b></p> <p><i>B is not correct because this is shown in graph B</i></p> <p><i>C is not correct because pulmonary veins do not leave the heart</i></p> <p><i>D is not correct because the vena cava does not leave the heart</i></p>	<b>(1)</b>
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Question Number	Answer	Additional Guidance	Mark
5(b)(iii)	<p>An explanation which makes reference to the following:</p> <ul style="list-style-type: none"> <li>• from 0 s (to 0.05 s) pressure increases due to atrial systole (1)</li> <li>• ventricle fills with blood { from the atrium / due to atrial systole } (1)</li> <li>• after atrial systole finishes (from 0.05s to 0.1s) there is a fall in ventricular pressure (1)</li> <li>• from 0.1s (to 0.32 s) increase in pressure due to ventricular systole (1)</li> <li>• (from 0.32 s) ventricular pressure decreases due to (ventricular) diastole (1)</li> </ul>	<p>ALLOW contraction of (muscular)walls of atria</p> <p>ALLOW contraction of (muscular walls of) ventricle</p> <p>ALLOW relaxation of (muscular walls of) ventricle</p>	<b>(4)</b>

Question Number	Answer	Additional Guidance	Mark
<b>5(c)</b>	<p>An explanation which makes reference to three of the following:</p> <ul style="list-style-type: none"><li>• aorta has {a thicker layer of / more} {collagen / elastic tissue / muscular tissue} (1)</li><li>• collagen (in walls of aorta) to withstand higher blood pressure (1)</li><li>• muscular tissue (in walls of aorta) to maintain higher blood pressure (1)</li><li>• elastic tissue (in walls of aorta) for {(elastic) recoil / to maintain blood pressure} (1)</li></ul>	<p>Accept converse argument for B</p> <p>ALLOW A for blood vessel in graph A instead of aorta</p> <p>ALLOW muscle for muscular tissue</p>	<p><b>(3)</b></p>