

Mark Scheme

Question			Answer/Indicative content	Marks	Guidance
1			A	1	
			Total	1	
2			B	1	
			Total	1	
3			C	1	
			Total	1	
4			A	1	
			Total	1	
5			D	1	
			Total	1	
6			A	1	
			Total	1	
7			B	1	
			Total	1	
8			A	1	
			Total	1	
9			C	1	
			Total	1	
10			A	1	
			Total	1	
11			B	1	
			Total	1	
12			D	1	
			Total	1	
13			C	1	
			Total	1	
14			B	1	

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Question			Answer/Indicative content	Marks	Guidance
			Total	1	
15			C	1	
			Total	1	
16	a	i	<i>normal rate</i> 78.9 bpm (1) <i>rate for tachycardia</i> 125 bpm (1) <i>percentage increase</i> 58 (%) (1)(1)	4	<p>ALLOW 1.3 bps.</p> <p>ALLOW 2.1 bps.</p> <p>ALLOW 2 marks for percentage increase correctly calculated using candidate's figures for rates and answer given to nearest whole number.</p> <p>ALLOW 1 mark for correct working $[(125 - 78.9) \div 78.9 \times 100]$ or correct use of candidate's figures for rates]</p> <p>or a correctly calculated but unrounded answer</p> <p>DO NOT ALLOW answers that divide by the rate for tachycardia as a percentage increase is asked for.</p>
		ii	<i>two from</i> lower (Q)R(S) peak (1) P and T equal in height (1) width of T wave greater (1)	2	
	b		<i>three from</i> no distinct, P curve / atrial depolarisation (1) irregular / weak, atrial contraction (1) insufficient blood forced into ventricles (1) although ventricles contract there is less blood forced from the heart (1)	3	
			Total	9	