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#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

Answers	Marks	Examiner's tips
(b) muscle is myogenic; mammalian made SAN; wave of electrical activity/impulses; intense contraction of atria; sinoatrial node (SAN); bundle of His/purkinje tissue spreads impulse across ventricles; ventricles contract after atria/time delay; enables ventricles to fill.	6 max	Ensure you remember the sequence. The wave of electrical activity can only pass to the ventricles via the AVN.
(c) mixing of oxygenated and deoxygenated blood; blood flow from left to right ventricle due to higher blood pressure on left side.	2 max	This results from a 'hole' between the ventricles. A similar condition can occur between the atria.
4 (i) risk of high blood pressure increases with age; risk of heart attack increases with age so heart attacks before 35 years;	2	Could also be given for referring to the decrease in risk of high blood pressure after the age of 70.
(ii) females more likely to develop high blood pressure; females have lower risk of heart attack (as they get older/over 55).	2	Both marks can be gained for the converse argument for marks.
(b) female = 47.5% (480 ÷ 1010 = 47.5); male = 46% (700 ÷ 1520 = 46%); (322/700) × 100 = 46%.	2	You must show both calculations to gain the 2 marks.
(c) in CHD the heart muscle receives a reduced amount of blood so oxygen/the necessary blood supply reduced; Smoking – more consumption of fat/calories (in blood) increased risk of clotting; increases viscosity of blood; nicotine causes plaques to stick together/ causes vasoconstriction; carbon monoxide associated with plaque formation; reduces ability of arteries to dilate/reduce elasticity; Cholesterol – any deposit adhere to wall of arteries; arteries become/coronary plaque; narrows lumen of artery; decrease endothelium; can lead to formation of blood clots/thrombosis.	6 max	The first mark is a general principle mark for describing CHD. You cannot gain more than 4 marks unless you discuss the effects of both smoking and cholesterol on the risk of developing CHD. You don't need to know all these details but you must be able to recall enough facts to obtain 6 marks.

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