## 1 0

Explain how the human circulatory system is adapted to:

- supply oxygen to the tissues
- remove waste products from tissues.

[6 marks]

## **Question 10**

Question	Answers	Extra information	Mark	AO / Spec. Ref.
10	<b>Level 3:</b> A detailed and coherent explanation is provided with most of the relevant content, which demonstrates a comprehensive understanding of the human circulatory system . The response makes logical links between content points.		5–6	AO1/1 4.1.1.3 4.1.3.1 4.2.2.2 4.2.2.3
	<b>Level 2:</b> The response is mostly relevant and with some logical explanation. Gives a broad understanding of the human circulatory system. The response makes some logical links between the content points.		3–4	
	<b>Level 1:</b> Simple descriptions are made of the roles of some of the following: heart function, gas exchange, named blood vessels, named blood cells. The response demonstrates limited logical linking of points.		1–2	
	No relevant content.		0	
	Indicative content			
	<ul> <li>dual / double circulatory system which blood pressure and a greater flow of</li> <li>heart made of specialised (cardiac) relong protein filaments that can slide performed the cell to bring about contraction for</li> <li>heart pumps blood to lungs in pulmod can diffuse into blood from air in alveet blood returns to heart via pulmonary blood to the body via aorta</li> <li>oxygen carried by specialised cells / haemoglobin to bind oxygen and have more space available to carry oxyge</li> <li>arteries carry oxygenated blood to the deliver oxygen to cells for respiration</li> <li>thin walls allow for easy diffusion to cells for move and the set of capillaries to mean special special set of a set of capillaries to mean spece available to the set of capillaries to mean special special set of the set of capillaries to mean spece available to the set of capillaries to mean special special set of the set of capillaries to mean special special set of the set of capillaries to mean special special special set of the special set of the set of the</li></ul>	blood to the tissues muscle cells which have past each other to shorten pumping blood mary artery so that oxygen eoli vein where muscles pump RBCs which contain ve no nucleus so there is n ssues where capillaries and energy release cells aximise exchange use from cells into the s which have valves to		
	accept annotated diagrams			
Total			6	]