

GCSE Biology B (Twenty First Century Science)

J257/01 Breadth in Biology (Foundation)

Question Set 30

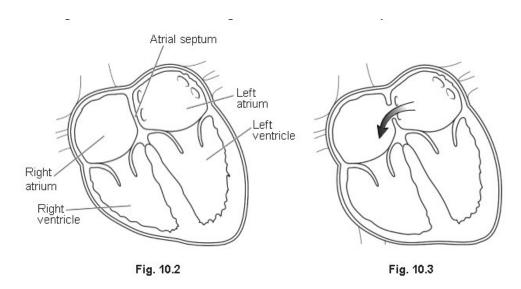
Multiple Choice Questions

	Fig. 10.1 shows three different circu	latory systems.			
	© B Furst, 'The Heart: Press Impendence?', Fig. 8, Journ Anesthesia', Vol. 367(6), Fe to third party of	al of Cardiotl ebruary 2015	noracic and i. Item remo	d Vascular	
	Fi	g. 10.1			
(a)	Which diagram best represents the human circulatory system?				
	Tick (✓) one box.				
	A B C -blo	ood circulate	s around	the body hu	'a befen
(b)	Give a reason for your answer. — blood (irculates around the body twice before — hous a chamber of heart — hous a chambers of heart — hous a chambers of heart [2] The human heart has many features that means it is adapted to its function. For each statement decide which structure's function is described.				
	Tick (✓) one box in each row.				
	Function	Heart valves	Cardiac	Heart	
	Contracts to force blood from atria to		muscle	chambers	
	ventricles		✓		
	Contracts to force blood out of the ventricles through vessels		✓		
	Prevents backflow of blood during contractions	✓			
	Blood temporarily stored in these small spaces to allow blood to be pumped at a high pressure			/	[4]

1

(c) Some babies are born with a heart defect known as a 'hole in the heart'. This is where thereis a hole between two of the heart's chambers.

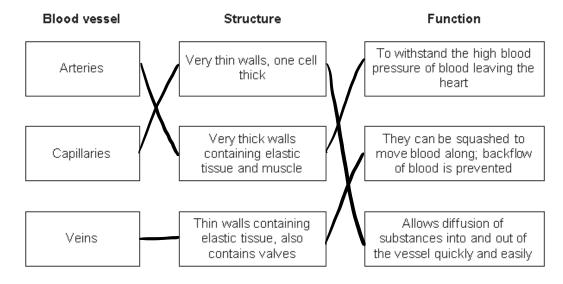
Fig. 10.2 shows a normal heart. **Fig. 10.3** shows a heart of a baby with a 'hole in the heart'.



Suggest how the defect in Fig. 10.3 could affect the baby.

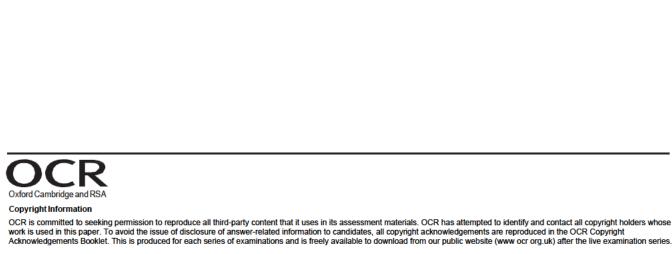
not enough Oxygenated blood travels around baby is body [1]
(d) The human circulatory system has three types of blood vessel. so cells can't respire
so might die

Draw lines to connect the **blood vessel** to the correct description of its **structure** and the explanation of how its structure allows it to carry out its **function**.



[3]

Total Marks for Question Set 30: 10



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