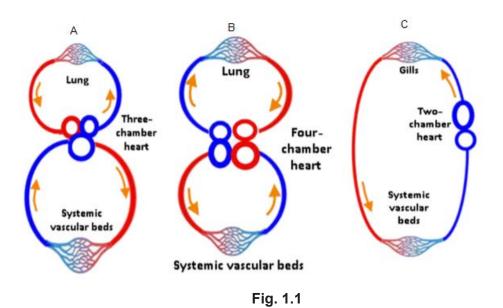


GCSE Biology B (Twenty First Century Science)

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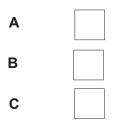
Question Set 20

Fig. 1.1 shows three different circulatory systems.



(a) Which diagram best represents the human circulatory system?

Tick (\checkmark) **one** box.



Give a reason for your answer.

[2]

(b) 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 (\checkmark) **one** box in each row.

	Structure		
Function	Heart valve	Cardiac muscle	Heart chambers
Contracts to force blood from atria to 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			

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

Fig. 1.2 shows a normal heart. Fig. 1.3 shows a heart of a baby with a 'hole in the heart'.

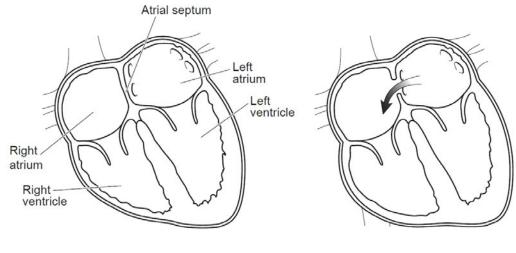


Fig. 1.2

Fig. 1.3

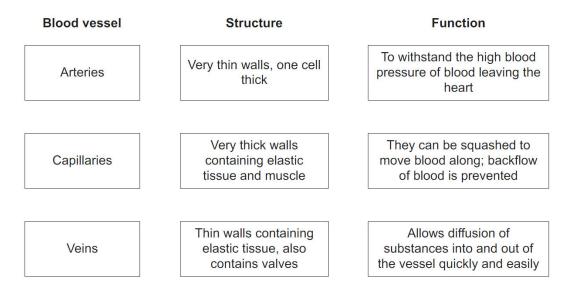
Suggest how the defect in Fig. 1.3 could affect the baby.

[4]

[1]

(d) The human circulatory system has three types of blood vessel.

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**.



Total Marks for Question Set 20: 10

[3]



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