

QUIZZZ

IGCSE transport in animals
16 Questions

NAME : _____

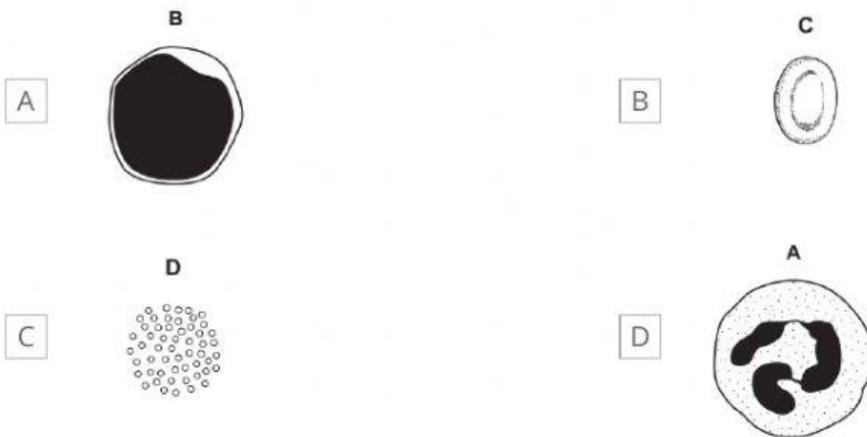
CLASS : _____

DATE : _____

1. Which substances are dissolved in human blood plasma?

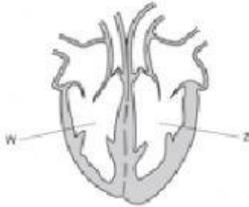
- A glucose, hormones and urea
- B carbon dioxide, oxygen and haemoglobin
- C carbon dioxide, haemoglobin and glucose
- D oxygen, urea and starch

2. The diagrams show some components of the blood of a mammal.
Which component causes the blood to start clotting?



3.

The diagram shows the human heart and some of the blood vessels connected to it.
Before blood in W reaches Z it must



- | | | | |
|----------------------------|---------------------------|----------------------------|---------------------------|
| <input type="checkbox"/> A | gain glucose. | <input type="checkbox"/> B | give up heat to the skin. |
| <input type="checkbox"/> C | pass through capillaries. | <input type="checkbox"/> D | travel to the head. |

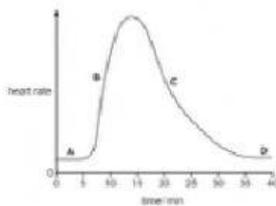
4. Which blood vessel has a high carbon dioxide concentration, a low oxygen concentration and a high blood pressure?

- | | | | |
|----------------------------|------------------|----------------------------|----------------|
| <input type="checkbox"/> A | vena cava | <input type="checkbox"/> B | pulmonary vein |
| <input type="checkbox"/> C | pulmonary artery | <input type="checkbox"/> D | aorta |

9. Which heart valves are open and which are closed when blood passes out of the right ventricle towards the lungs?

- A tricuspid valve open, bicuspid (mitral) valve open
- B bicuspid (mitral) valve open, semi-lunar valve closed
- C bicuspid (mitral) valve closed, tricuspid valve open
- D tricuspid valve closed, semi-lunar valve open

10. The graph shows the effect of several minutes of vigorous (hard) exercise on heart rate. Which letter on the graph is at a time when the person is doing this exercise?



- A B
- B C
- C A
- D D

11. How often must a blood cell in the renal artery pass through the heart before it again reaches the renal artery?

- A 3 times
- B twice
- C once
- D 4 times

12.



The diagram shows a section through a blood vessel in the leg. Which type of blood vessel is shown, and in which direction does the blood flow?

A artery - flow from P to Q

B vein - flow from P to Q

C artery - flow from Q to P

D vein - flow from Q to P

13. In a person with a low platelet level, which process is slower than normal?

A phagocytosis

B oxygen carriage

C blood clotting

D antibody formation

14. What describes the aortic (semi-lunar) and bicuspid (mitral) heart valves when the left ventricle is relaxing?

A aortic valve closed, bicuspid valve opened

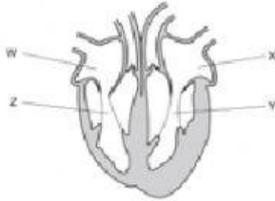
B aortic valve opened, bicuspid valve opened

C aortic valve opened, bicuspid valve closed

D aortic valve closed, bicuspid valve closed

15.

The diagram shows the human heart.
Which two chambers contract at the same time?

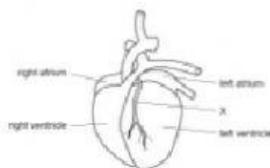


- A Z and Y
- C W and Z

- B X and Y
- D W and X

16.

The diagram shows an external view of the human heart.
What is the name of the blood vessel labelled X?



- A hepatic artery
- C renal artery

- B pulmonary artery
- D coronary artery

