

# 9. Transport in animals

9.4 Blood

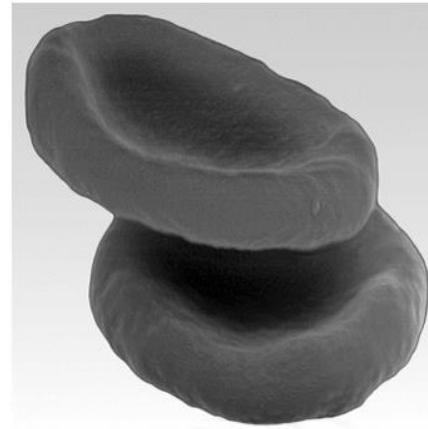
**Paper 1 and 2**

Question Paper

## Paper 1

Questions are applicable for both core and extended candidates

1 The photomicrograph shows two blood cells.

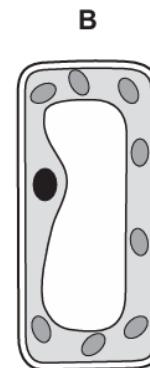
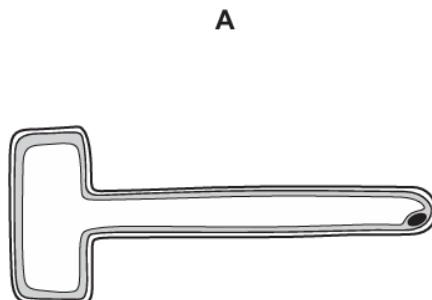


What is the function of these cells?

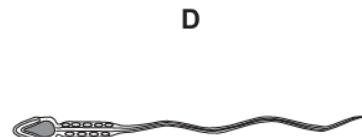
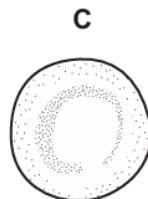
- A** to carry out phagocytosis
- B** to produce antibodies
- C** to transport oxygen
- D** to transport vitamins

2 The diagrams show four different types of cells.

Which cell contains haemoglobin?



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3 In which row is the component of blood correctly linked to its function?

	blood component	function
A	plasma	transport of carbon dioxide
B	platelets	phagocytosis
C	red blood cells	antibody production
D	white blood cells	blood clotting

4 Which process is slower than normal in a person with very few platelets?

- A antibody formation
- B blood clotting
- C oxygen transport
- D phagocytosis

5 Which process is slower than normal in a person with very few platelets?

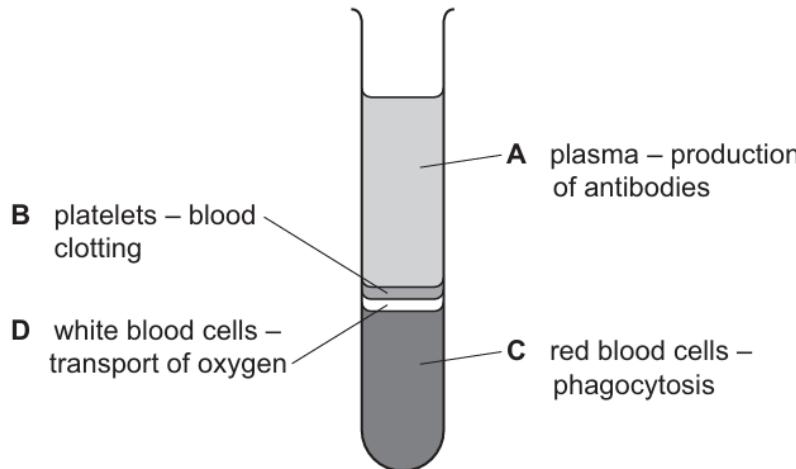
- A** antibody formation
- B** blood clotting
- C** oxygen transport
- D** phagocytosis

6 Which component of blood produces antibodies?

- A** red blood cells
- B** white blood cells
- C** platelets
- D** plasma

7 The diagram shows the four components of blood separated into layers.

Which component is labelled with the correct function?



8 What is a function of some white blood cells?

- A** to carry glucose
- B** to carry oxygen
- C** to produce antibiotics
- D** to produce antibodies

9 Which component of the blood releases antibodies in response to an infection by bacteria?

- A** blood plasma
- B** platelets
- C** red blood cells
- D** white blood cells

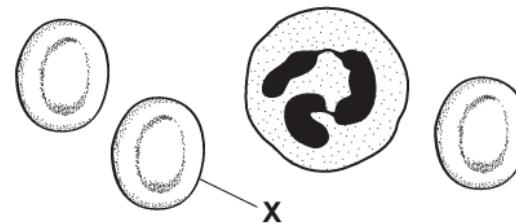
10 Some functions of blood are listed.

- 1 antibody production
- 2 blood clotting
- 3 oxygen transport
- 4 phagocytosis

What are functions of white blood cells?

- A** 1 and 2
- B** 1 and 4
- C** 2 and 3
- D** 3 and 4

11 The diagram shows human blood cells, as seen under a microscope.



What is the function of cell X?

- A** to carry glucose
- B** to carry oxygen
- C** to defend against disease
- D** to make the blood clot

## Paper 2

Questions are applicable for extended candidates only

12 The diagram shows a component of blood.



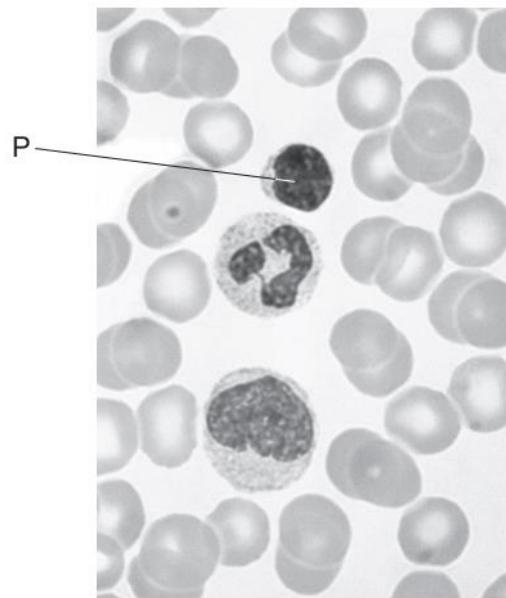
What is the name of this component? **(extended only)**

- A** lymphocyte
- B** phagocyte
- C** platelet
- D** red blood cell

13 What is the role of lymphocytes in the blood? **(extended only)**

- A** antibody production
- B** blood clotting
- C** phagocytosis
- D** oxygen transport

14 The photomicrograph shows some blood cells.



What is the function of cell P? **(extended only)**

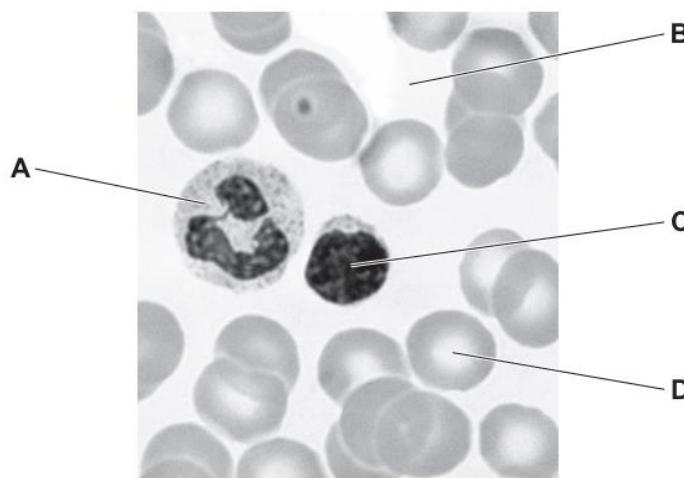
- A** It carries carbon dioxide.
- B** It carries oxygen.
- C** It helps to clot blood.
- D** It produces antibodies.

15 Which component of blood produces antibodies? **(extended only)**

- A** lymphocytes
- B** phagocytes
- C** plasma
- D** red blood cells

16 The photomicrograph shows human blood.

Which blood component makes antibodies? **(extended only)**



17 The diagrams show four components of blood.

Which component produces antibodies? **(extended only)**

