#### 12 The blood circulatory system - answers

- 1 (a) White cells have nuclei, red cells do not have nuclei. Some white cells can change their shape, red cells cannot.
  - (b) White cells ingest bacteria or make antibodies. Red cells carry oxygen.

2 Blood cells are made in the red bone marrow, e.g. in the ribs, sternum or vertebrae.

3 Fibrinogen, albumin and globulin (any two) are plasma proteins.

4 In addition to proteins, plasma contains salts (ions), glucose, lipids and amino acids, hormones, carbon dioxide and urea.

5 (1) Atria fill with blood, (2) ventricles relax, (3) semi-lunar valves close, (4) atria contract, (5) tricuspid and bicuspid valves open, (6) ventricles contract, (7) bicuspid and tricuspid valves close, (8) semi-lunar valves open.

Note: The order of semi-lunar valves and bicuspid and tricuspid valves may be reversed as their action is virtually simultaneous.

6 The missing words are: (A) left, (B) pulmonary, (C) left, (D) aorta, (E) deoxygenated, (F) vena cava, (G) right, (H) pulmonary, (I) lungs.

7 (d) Capillaries are thin-walled, not thick-walled.

8 Arteries carry blood from the heart. Veins carry blood to the heart.

9 There are valves in the heart (between each atrium and ventricle, in the aorta and pulmonary artery), in some of the large veins and in some of the lymphatics.

10 Tissue fluid is plasma (minus its proteins) which has leaked out of the capillaries. Lymph is tissue fluid which has entered the lymphatics.

11 Some of the larger lymphatics are able to contract, otherwise the lymph is propelled by body muscles which contract and 'squash' the lymphatics.

12 Lymph nodes contain white blood cells which ingest bacteria and prevent them from reaching the circulation.

13 Oxygen is transported from the lungs (A) to the whole body. Carbon dioxide (B) is transported from the whole body to the lungs. Urea (C) is transported from the liver to the kidneys. Digested food (D) is transported from the intestine to the whole body (E) (via the liver). Heat is transported from active muscles (F) to the whole body (G).

14 (d) Blood leaving a muscle will have more carbon dioxide, less oxygen and less glucose as a result of respiration.

15 (d) Blood from the alimentary canal returns to the heart by way of the hepatic portal vein, hepatic vein and vena cava.

# **Physiology Of Circulation Answers**

Hozefa Ebrahim,Khalid Hasan,Mark Tindall

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