

## 10.4 Blood

### Core

- List the components of blood as red blood cells, white blood cells, platelets and plasma
- Identify red and white blood cells, as seen under the light microscope, on prepared slides and in diagrams and photomicrographs
- State the functions of the following components of blood:
  - red blood cells in transporting oxygen, including the role of haemoglobin
  - white blood cells in phagocytosis and antibody production
  - platelets in clotting (details are not required)
  - plasma in the transport of blood cells, ions, soluble nutrients, hormones and carbon dioxide

### Supplement

- Identify lymphocyte and phagocyte white blood cells, as seen under the light microscope, on prepared slides and in diagrams and photomicrographs
- State the functions of:
  - lymphocytes – antibody production
  - phagocytes – phagocytosis
- Describe the process of clotting as the conversion of fibrinogen to fibrin to form a mesh
- State the roles of blood clotting as preventing blood loss and preventing the entry of pathogens
- Describe the transfer of materials between capillaries and tissue fluid (details of the roles of water potential and hydrostatic pressure are not required)

## 10 Diseases and immunity

### 10.1 Diseases and immunity

#### Core

- Define pathogen as a disease-causing organism
- Define transmissible disease as a disease in which the pathogen can be passed from one host to another
- State that the pathogen for a transmissible disease may be transmitted either through direct contact, e.g. through blood or other body fluids, or indirectly, e.g. from contaminated surfaces or food, from animals, or from the air
- State that the body has defences:
  - mechanical barriers, limited to skin and hairs in the nose
  - chemical barriers, limited to mucus and stomach acid
  - cells, limited to phagocytosis and antibody production by white blood cells
  - which can be enhanced by vaccination

#### Supplement

- State that antibodies lock on to antigens leading to direct destruction of pathogens, or marking of pathogens for destruction by phagocytes
- Explain how each pathogen has its own antigens, which have specific shapes, so specific antibodies which fit the specific shapes of the antigens are needed
- Define active immunity as defence against a pathogen by antibody production in the body
- Explain that active immunity is gained after an infection by a pathogen, or by vaccination
- Explain the process of vaccination:
  - harmless pathogen given which has antigens
  - antigens trigger an immune response by lymphocytes which produce antibodies
  - memory cells are produced that give long-term immunity

continued

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