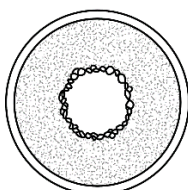
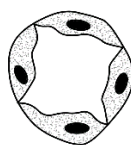
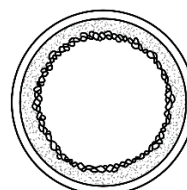


Name:

Class:



The figure shows cross-sections of three types of blood vessel (not to the same scale).

**X****Y****Z**

Identify X, Y and Z.

X = Artery**Y = Capillary****Z = Vein**

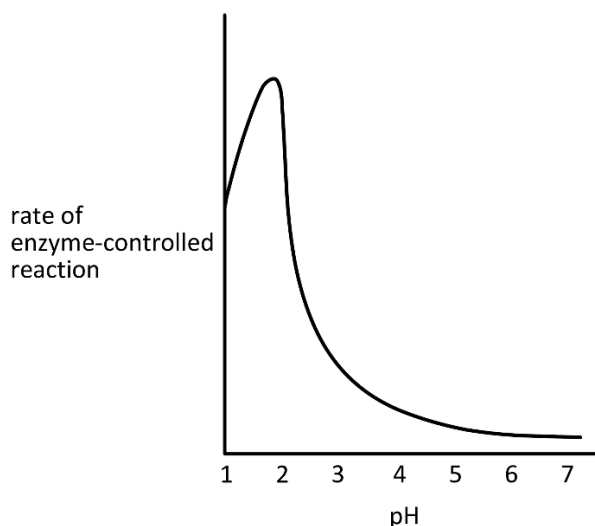
What is a pathogen?

A micro-organism that can cause disease.

What is a heterozygous gene?

A gene that has a dominant and recessive allele.

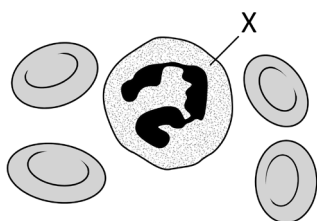
The graph shows how the rate of an enzyme-controlled reaction changes with pH.



Which statement is correct for this enzyme?

- A** This enzyme is denatured by acidic conditions.
- B** This enzyme works best in acidic conditions
- C** This enzyme works best in alkaline conditions.
- D** This enzyme works best in neutral conditions.

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



i. What type of white blood cell is cell X?

A phagocyte.

ii. What is the function of cell X?

To engulf pathogens or other microorganisms, and destroy them.**Accept phagocytosis as a stand-alone answer.**

Osmosis occurs across cell membranes. What is osmosis?

Osmosis is the movement of water from an area of high water concentration to an area of low water concentration moving through a partially permeable membrane.**Do not accept semi permeable.**