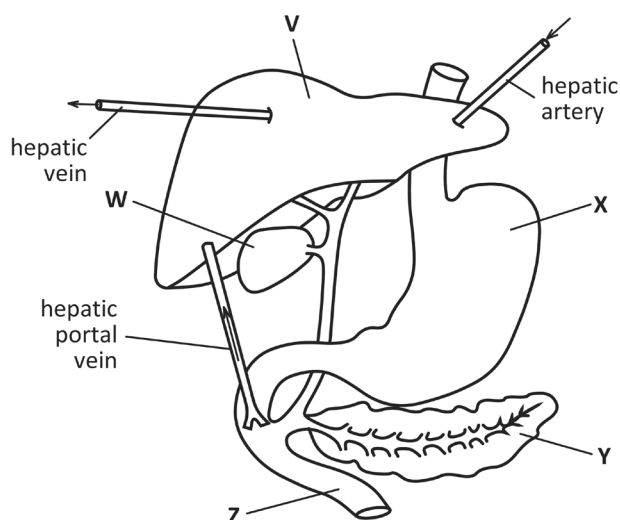


Name:

Class:



The figure below shows a diagram of part of the digestive system, associated organs and blood vessels.



Name of structure	Letter label
Duodenum	Z
Gall bladder	W
Liver	V
Pancreas	Y
Stomach	X

What is an enzyme?

A biological catalyst made of protein.

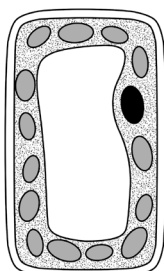
Name the hormone that maintains the lining of the uterus.

Progesterone

The figure below shows two cells.



cell A



cell B

- i. Cell A is a type of white blood cell. Name cell A and state its function.

Cell A is a Phagocyte.

Phagocytes engulf pathogens and foreign bodies in the process of phagocytosis.

- ii. Name cell B. **Palisade cell.**

- iii. State where, in a human, a cell of type A would normally be found.

The blood/ bloodstream/ tissue fluid.

- iv. State where, in a plant, a cell of type B would be found.

Leaf/ palisade mesophyll layer.

Give the balanced symbol equations for photosynthesis and respiration.

Photosynthesis: $6\text{CO}_2 + 6\text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$

Respiration: $\text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2 \rightarrow 6\text{CO}_2 + 6\text{H}_2\text{O}$

State **one** difference between adult stem cells and embryonic stem cells.

Embryonic stem cells are totipotent / pluripotent / produce cells that can develop into any type of body cell.

Accept: embryonic stem cells can differentiate into all types of cell, adult stem cells can't.