

Name:

Class:



The figure below shows the leaf of a wheat plant with a fungal disease.

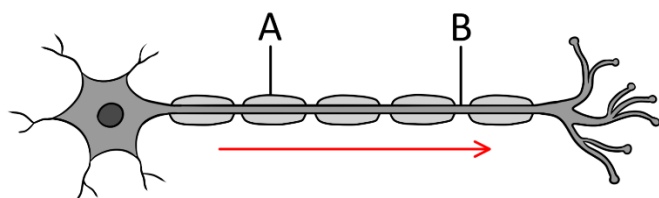


Give **two** benefits of breeding wheat plants that are resistant to fungal disease.

Any two from the following:

- (wheat) plants not damaged.
- the spread of the fungus would be reduced.
- greater yield / profit.
- reduced use of fungicides / pesticides.

Motor neurones are found in the nervous system.



i. Name both structure A and structure B.

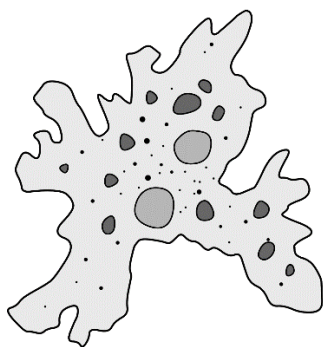
A = **Myelin sheath**

B = **Axon**

ii. Draw an arrow on the figure to show the direction of travel of an electrical impulse along the motor neurone.

Accept any arrow pointing from left to right.

The figure below shows a single-celled pond organism (*Amoeba proteus*).



The amoeba has no organs for gas exchange. How does oxygen enter the amoeba for respiration?

Diffusion

i. What is an enzyme?

A biological catalyst made of protein.

ii. What enzyme breaks down lipids?

Lipase

iii. State the products of the digestion of lipids.

Three fatty acids and one glycerol.

Number of each product must be given for the answer to be correct.

Potassium ions enter neurones by active transport. What is active transport?

Active transport is the movement of a substance through a carrier protein from an area of low concentration to an area of high concentration, moving against the concentration gradient.