

1 Complete the sentences.

Seeds contain proteins for the of developing shoots and roots. Proteins contain the elements, oxygen, and nitrogen.

The new leaves of a seedling need the mineral ion to make the green pigment

This green pigment is needed to carry out the process of, in the presence of light.

[6]

[Total: 6]

2 The shape of a protein is very important for its function.

Explain the importance of shape for the function of an enzyme.

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[3]

[Total: 3]

3 State **two** ways a plant uses water other than for transpiration.

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2
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[2]

[Total: 2]

4 Starch is a large molecule.

The boxes on the left show the names of some other large molecules.

The boxes on the right show some sentence endings.

Draw **five** lines to make five correct sentences.

large molecule

Cellulose

DNA

Glycogen

Oil

Protein

sentence ending

is made from amino acids.

is made from fatty acids and glycerol.

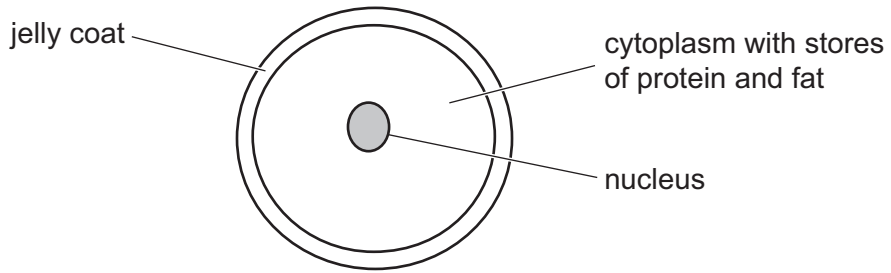
is made from glucose.

is the genetic material.

[5]

[Total: 5]

5 The diagram shows a section through an egg cell at the time of ovulation.



Explain why the egg cell contains stores of protein and fat.

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[3]
[Total: 3]

6 List the chemical elements in a carbohydrate.

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[1]
[Total: 1]