AQA, OCR, Edexcel

GCSE Science

GCSE Biology

Use of Glucose Answers

Name:

M M E

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Total Marks: /18

Q1: Explain how plants store glucose.

A= Starch

(1 mark)

Q2: Give 2 ways plants use the glucose produced by photosynthesis.

A= Any 2 of the following:

- Make lipids
- Make cellulose
- Make amino acids

(2 marks)

Q3: Discuss the ways a plant can store starch.

A= Any 2 of the following:

- Cells in leaves
- Tubers
- Bulbs

(2 marks)

Q4: i) Explain how the presence of starch in a plant can be measured.

A= 1 mark for each of the following:

- Heat to remove waxy cuticle
- Heat in ethanol to remove colour
- Rinse in hot water to soften
- Add iodine solution
- If starch present – blue/ black

(5 marks)

ii) Why must the colour be removed before testing with iodine?

A= Masks colour change.

(1 mark)

Q5: Explain how plants use glucose to make amino acids.

A= Combine sugars and nitrate ions

(1 mark)

Q6: Discuss why some plants can live in poor nitrate soils and give an example of a soil type and a plant that has adapted to poor nitrate soil.

A= 1 mark environment, 1 mark example:

- Environment – Bogs/ Peat bogs
- Plant example – Carnivorous plants – accept any eg Venus flytrap.

1 mark for each point:

- Cant grow minerals too low
- Survival – take minerals from insects – digestive enzymes

(4 marks)

Q7: Give an example of a lipid store in plants.

A= Seeds

(1 mark)

Q8: Why are some algal cells being considered as a biofuel?

A= Rich in oil

(1 mark)