

2801 biology foundation june 2004 mark scheme as papers

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2801 Biology Foundation June 2004 Mark Scheme

The 2801 Biology Foundation GCSE examination took place in June 2004. The mark scheme for this paper is available online and provides detailed guidance on how to award marks for each question.

Question 1:

Explain how the structure of the root hair cell is adapted to its function of water uptake.

Answer:

- Thin cell wall to allow water to enter easily.
- Large surface area due to many root hairs.
- Many mitochondria to provide energy for active uptake.
- Vacuole to store water.

Question 2:

Describe the role of hormones in controlling plant growth.

Answer:

- Hormones are chemical messengers that control growth and development.
- Auxins promote cell elongation and root growth.

- Gibberellins promote stem elongation and flower development.
- Cytokinins promote cell division and leaf growth.
- Ethylene promotes fruit ripening and leaf fall.

Question 3:

Explain how the circulatory system transports glucose to the body's cells.

Answer:

- Glucose is absorbed into the bloodstream from the small intestine.
- The blood carries glucose to the liver, where it is stored as glycogen.
- When needed, the liver releases glucose into the bloodstream.
- The bloodstream carries glucose to all the body's cells.
- Cells use glucose for respiration to provide energy.

Question 4:

Describe the causes and symptoms of malaria.

Answer:

Causes:

- Infection with the protozoan parasite Plasmodium.
- Transmitted by Anopheles mosquitoes.

Symptoms:

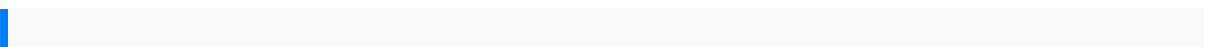
- Fever, chills, sweating.
- Muscle and joint pain.
- Headache.
- Nausea and vomiting.
- In severe cases, anemia, brain damage, and death.

Question 5:

Explain how selective breeding has been used to improve crop yields.

Answer:

- Farmers select plants with desirable traits, such as large size, high yield, and resistance to pests and diseases.
- They breed these plants together to produce offspring with the desired traits.
- This process is repeated over many generations to develop new varieties of crops with improved yields.



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