AQA, OCR, Edexcel

GCSE Science

GCSE Biology

Biomass Transfer Answers

Name:

M M E

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Total Marks: /16

Q1: What is the approximate amount of biomass passed to each trophic level from the previous?

A= 10%

(1 mark)

Q2: Explain how biomass can be lost between trophic levels.

A= Accept any 2 of the following:

- Lost in faeces
- Lost in waste
- Lost in urea
- Respiration
- Energy use

(2 marks)

Q3: Explain and give 2 examples of why carnivores can't use all biomass from their prey.

A= 1 mark for following – Carnivores can't digest all components

2 marks for any 2 of the following:

- Hooves
- Claws
- Bones
- Teeth

(3 marks)

Q4: Explain the rate of biomass consumption between an active animal and a stationary animal.

A= 2 marks awarded for any 2 of the active points and 2 marks awarded for any 2 of the stationary points.

Active:

- Increased biomass use
- Energy used up faster
- Respiration increase uses more energy

Stationary:

- Low biomass use
- Not respiring quickly/ Less energy needs
- Energy Conserved

(4 marks)

Q5: Explain how mammals keep a constant body temperature and why.

A= 1 mark awarded for each point:

- Transfer heat to surroundings to keep warm
- Require a constant temperature

(2 marks)

Q6: Using your knowledge of biomass transfer, explain the likely comparison of biomass between decomposers and the other levels of biomass pyramid.

A= 1 mark awarded for each point:

- More biomass in decomposers
- Take waste from other trophic levels

(2 marks)

Q7: Give 2 examples of how energy from biomass is used within mammals.

A= 1 mark awarded for each point:

- Movement (respiration)
- Growth

(2 marks)