**AQA, OCR, Edexcel**

# GCSE Science

# GCSE Biology

## Communities Answers

Name:

**MME**
Mathsmadeeasy.co.uk

Total Marks: /21

Q1: what is the definition of a community?

A= Interacting with abiotic/ non living elements of environment

(1 mark)

Q2: What is the difference between a community and an ecosystem?

A= 1 mark awarded for each of the following points:

- An ecosystem is made up of multiple communities
- Dependant on each other
- Adapted to their living conditions

(3 marks)

Q3: Give 2 examples of materials that are recycled though ecosystems.

A= Award marks for any 2 of the following:

- Carbon
- Nitrogen
- Water

(2 marks)

Q4: i) In terms of ecosystems describe interdependency.

A= Rely on each component of the ecosystem to thrive

(1 mark)

ii) Give 3 examples of interdependency between plants and animals.

A= Accept any 3 of the following:

- Animal seed dispersal
- Animals pollinate plants
- Plants produce food
- Animals use plants for shelter/ nutrients
- Plants get nutrients from animal waste

(3 marks)

Q5: Ecosystems are fragile and can be altered by the removal of change of one factor. Give an example of a factor that can upset an ecosystem and suggest ways this will impact the ecosystems.

A= Accept any 2 of the following:

- Removal of food source – Species die
- Removal of light – Limits food available
- Foreign species – Extra competition/ Native species can be removed from ecosystem

(2 marks)

Q6: What effect does a stable community have on species numbers?
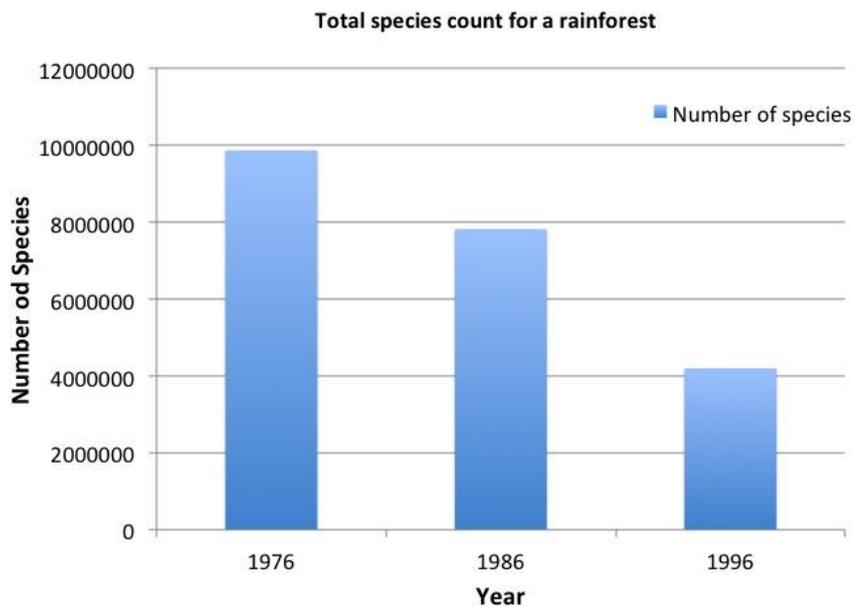
A= Remain relatively constant

(1 mark)

Q7: Give an example of a stable community.

A= Accept one of the following:

- Oak woodland
- Mature coral reef
- Tropical rainforest
- Also accept any other stable communities (eg mature environment)

(1 mark)

Q8: The graph below shows the total species count for a rainforest over 30 years.

**Total species count for a rainforest**



i) Give a potential reason for the large decline in species seen in 1996.
A= Deforestation

(1 mark)

ii) Given the decline in species seen between 1976 and 1996. How would the rainforest be described?
A= Unstable

(1 mark)

Q9: Describe competition within an ecosystem and give one plant competition and one animal competition.

A= 1 mark for describing competition

1 mark for plant example and 1 mark for animal example

- Competition for resource, required to survive
- Plant example – Light/ Nutrients
- Animal example – Food / Habitat

(3 marks)

Q10: Give an example of a small stable community.

A= Accept one of the following:

- Oak tree
- Pond
- Accept any other valid examples

(1 mark)

Q11: Students want to create a micro-ecosystem. Give an example of a micro-ecosystem the students could create.

A= Accept one of the following:

- Aquarium
- Terrarium/ Biosphere
- Accept any other valid examples

(1 mark)