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Compare a community with a population

[2 marks]

A community is all the plants and animals in an ecosystem [1]

a population is the total number of one species living in a community [1]

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Within a community, each species depends on other species for food, pollination, shelter and seed dispersal.

State what this relationship is called.

[1 mark]

interdependence [1]

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Tick the box below that best describes what is meant by a 'stable community'.

[1 mark]

Tick **one** box.

* When biotic and abiotic factors are balanced so the population sizes stay fairly constant

* When predator and prey numbers remain the same

* Only associated with tropic rainforests

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Describe the difference between biotic and abiotic factors

[2 marks]

biotic factors are living factors [1] that could affect an organisms distribution e.g. predators/parasites etc.

abiotic factors are physical/non-living/environmental factors [1] that affect where an organism lives e.g. temperature/salt levels etc

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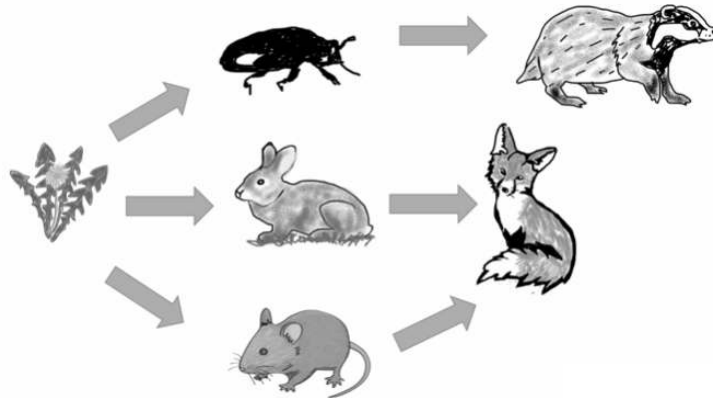
Suggest **two** abiotic factors that could affect the distribution of a plant.

[2 marks]

temperature/pH/minerals/water/light/wind speed or direction/other suitable suggestions [any 2]

Below is a diagram of a simple food web.

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If a new parasite was introduced into this ecosystem that wiped out all the pollen beetles how could this affect the other organisms that depends on these beetles?
[3 marks]

the badger will not have anything to eat/will starve/need to find another food source [1]

plants that depend on the beetle to help with pollination may not reproduce as well/plant numbers will fall [1]

less food available for rabbits and mice [1]

meaning less food for the fox [1]