

## Mark schemes

## Q1.

(a) any **one** from:

- sun
- light

*ignore photosynthesis*

1

(b)

Feeding relationship	Organism
Secondary consumer	lynx
Primary consumer	(snowshoe) hare
Producer	grass
Herbivore	(snowshoe) hare
Carnivore	lynx
Prey	(snowshoe) hare
Predator	lynx

1

1

1

*if no other mark awarded allow 1 mark for 3 correct answers*

Up to 3

(c) camouflaged / hidden **or** not (easily) seen*allow description eg blends in with surroundings*

1

from lynx / predator / carnivore

1

not killed / eaten

*allow less likely to be killed / eaten*

1

(d) any **two** from:

- fewer lynx (to eat them)  
*allow not many predators / lynx do **not** accept no lynx / predators*
- more food / grass (available)  
*allow a lot of food / grass*
- hares reproduce / breed / multiply

2

(e) (number of lynx) increases 1

(f) less food **or** fewer (snowshoe) hares (to eat) **or** fewer prey  
*ignore the lynx were hunted*  
*do **not** accept no food* 1

(g) any **two** from:  
• (lost in) respiration (of snowshoe hare)  
*allow as carbon dioxide*  
• egestion / faeces  
*allow not all digested*  
• excretion / urea / urine  
• not all eaten  
*allow not all (named) parts eaten* 2  
*if no other mark awarded, allow 1 mark for waste*

[13]