

Mark schemes

Q1.

- (a) 6000 (kJ/m²/year) 1
- (b) $\frac{40}{16\,000} \times 100$ 1
- 0.25 (%) 1
- (c) cows move less indoors 1
- it is warmer indoors 1
- (d) cows are close(r) together
allow cows are in an enclosed space 1
- (e) any **one** from:
 • D
 • G
 • H 1
- (f) DNA 1
- (g) reproduction 1
- (h) any **two** from:
ignore reference to crops
- many animals will become ill
allow many animals may die
 - resistant bacteria passed from animal to animal
allow disease passed from animal to animal or other animals infected
 - animals cannot be cured (by the antibiotic)
allow antibiotic will not work
 - animals may be less productive / efficient
allow less meat / milk produced
allow less growth
 - farmer may lose profit / money

*allow cannot sell infected produce /
animals*

2

[11]