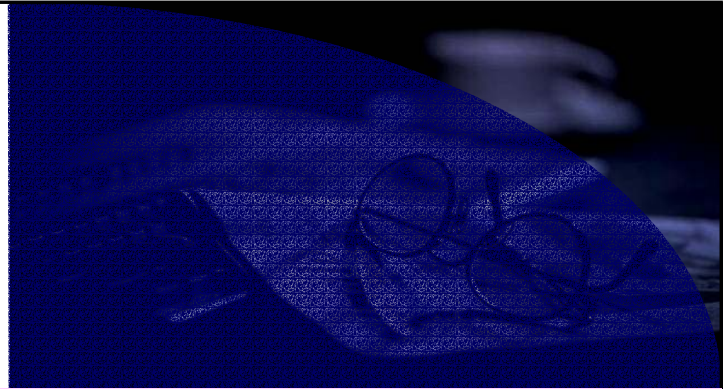


assessment for learning

year 8...mark scheme



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8D Ecological relationships...mark scheme

Assessment for learning...year 8 (level 3-6)

Question 1:

- (a) (i) microscopic plants → tadpoles → water boatmen → perch
or microscopic plants → water fleas → small fish → perch 1
accept 'plants' or 'microscopic' for microscopic plants
- (ii) microscopic plants 1
accept 'plants'
- (b) decrease 1
accept 'go down'
- any **one** from 1
- more of them are eaten by perch
 - perch would have no small fish to eat
- accept 'because the increased number of water fleas eat more plants, there is less food for tadpoles, therefore fewer tadpoles'*

[4]

Question 2:

- (a) wolf **or** wolves 1
a relevant reason for a decrease in population should be given

- (b) any **one** from 1
- not enough food
 - deer hunting
 - more types of predator
 - more wolves
 - disease
 - migration

- (c) (i) decreased **or** went down 1
the answer is 'increased' if the answer to (b) is 'more wolves'

answer should refer to deer or food

- (ii) any **one** from 1
- more deer in previous years so more deer food for wolves
accept 'more deer in the late 50's than in the early 40's'
 - wolves bred more when there was more to eat
*do **not** accept 'more deer' unless suitably qualified*

[4]

Question 3:

- (a) (i) D *if more than one letter is given award no mark* 1
- (ii) A *if more than one letter is given award no mark* 1
- (iii) B *if more than one letter is given award no mark* 1
- (b) (i) respiration ✓ *if more than one box is ticked award no mark* 1
- (ii) feeding ✓ *if more than one box is ticked award no mark* 1

[5]

Question 4:

- (a) (i) mayfly nymph 1
accept 'mayfly' or 'nymph'
- (ii) water beetle 1
accept beetle
- (iii) lymnaea 1
- (b) (i) E 1
if more than one letter is given award no mark
accept 'tubifex'
- (ii) A 1
accept 'mayfly nymph'

accept 'water beetle'

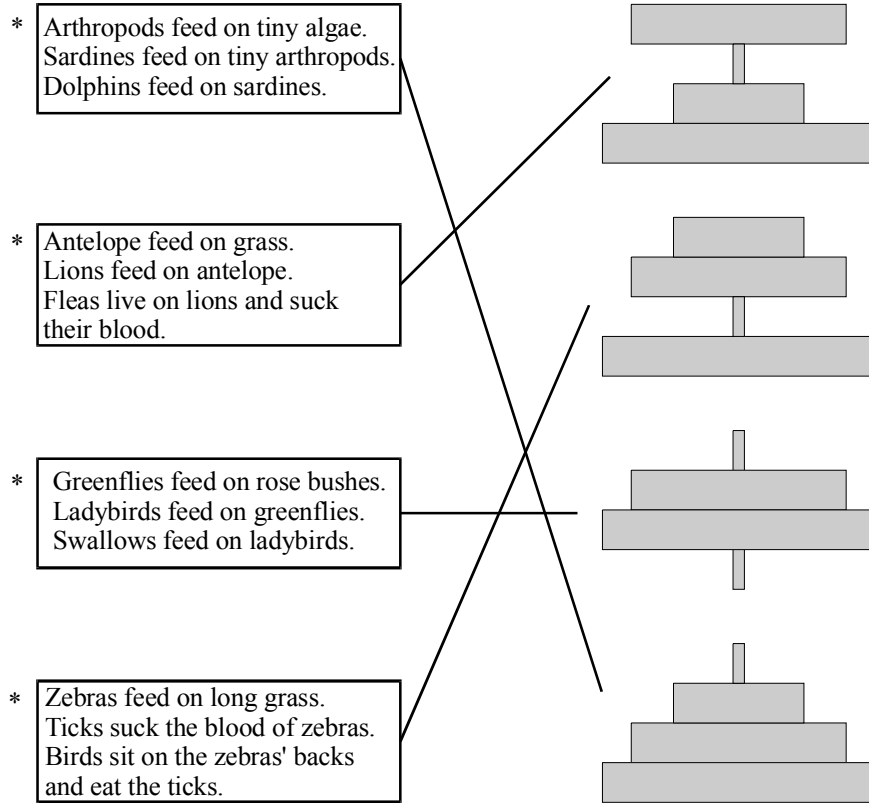
answers may be in either order

[6]

Question 5:

- (a) award one mark for each correct line if more than one line has been drawn from any description, award no mark for any of the lines from that description

4



[4]