

# Classification and Keys 

Mark Scheme

Time available: 40 minutes Marks available: 62 marks

1. (a) (i) • blackbird and robin both answers are required for the mark answers can be in either order
(ii) • 2
accept 'blue tit and sparrow'
(iii) • seeds

1 (L3)
(iv) • robin
(b) • feathers
accept 'down'
'fat' is insufficient
(c) any one from

- to feed their young
accept 'they are more active'
'it needs more energy' is insufficient 'they have babies' is insufficient 'to (help them) reproduce' is insufficient do not accept 'to feed the eggs'
- to produce eggs
accept 'to make eggs' or 'collect nesting materials'
accept 'to keep eggs warm'
accept 'to attract mates'
do not accept 'there is less food in winter' do not accept an answer indicating that birds are born

2. (a) (i) - they decreased or went down
any one from

- more were eaten
accept 'more were killed'
- the mink ate them
accept 'some died' do not accept 'they all died'
- more animals to eat them
(ii) any one from
- they decreased or went down accept 'there were fewer of them'
- they had less food or rabbits accept 'they had no food'
- the mink ate their food
accept 'they had to share their food or rabbits'
(b) prey
(c) (i) any one from
- fox
- snake
- badger
- bird of prey
accept a named bird of prey such as 'owl' or 'hawk' or 'eagle’ accept 'cat'
(ii) any two from
- different climate
- disease
- not enough food
accept 'no food' or 'they starved or 'competition for food' references to old age are insufficient
- shot or run over or trapped or poisoned accept 'people killed them'
- injury due to fighting
- different habitat
(d) any one from
- they have fur or hair
'they are warm-blooded' is insufficient
- they have external ears accept 'they give birth to live young' accept 'they feed their young on milk'

3. (a) (i) vertebrates do not accept 'vertebrae'
(ii) reptiles
(b) any one from

- so that it can bend
- to allow movement
(c) any one from
- to stop the bones rubbing together accept 'it reduces friction'
- to stop bones getting worn down
- to cushion the bones
accept 'it can be squashed' accept 'it absorbs shock'
(d) the biceps contracts the triceps relaxes
both answers are required for the mark

4. (a) vertebrates
accept 'animals with backbones'
do not accept 'warm blooded'
(b) (i)

(ii)

(iii)

award one mark for each correct label

## 1 (L5)

(c) any one from

- paddle shaped
accept 'large surface’ accept 'it is thick'
do not accept 'it is big' or 'it is strong' do not accept 'it can paddle in water'
- fin-like
accept 'it is a big fin'
- wide bones
accept "big bones"
- streamlined
'it is flexible' is insufficient'
(d) they are light
accept 'they make the bird lighter'

5. (a) E accept 'fish'
(b) B or D or H
accept 'flower' or 'tree' or 'grass'
(c) A or C or F or G
accept 'bird' or 'boy ' or' frog' or 'snake'
(d) answers may be in either order

E
accept 'fish'
1

F
accept 'frog'
1
(e) answers may be in either order

E accept 'fish'

G
accept 'snake'
1
6. (a) 2
(b) 1
(c) 4
(d) 3
7. (a) All vertebrates have a backbone
if more than one box is ticked, award no mark
1 (L3)
(b) (i) it had fur or hair accept 'it has ears on the outside of its body' do not accept it has a coat'
(ii) any one from

- they produce milk to feed the young accept 'they suckle' or 'they feed ' their young with milk
- they give birth to live young
accept 'they give birth' or 'they do not lay eggs'
- they have mammary glands
accept 'they have teats'
accept 'they have fur' or 'they have ears on the outside of their bodies' if not given as the answer to part (b) (i) do not accept 'they are warm blooded'
(c) (i) amphibians
(ii) it has strong or big or long legs
(iii) any one from
- it has webbed feet accept 'it has flippers' or 'it has big feet'
- it has strong back legs accept 'it is smooth skinned' or 'it is streamlined' do not accept 'it has paddles'
(d) any one from
- the eggs do not have a shell
accept 'they only have jelly around them'
- they would dry out on land
accept 'to keep the jelly wet'
- they are fertilised in water
- tadpoles can live only in water
accept 'tadpoles have gills'
do not accept 'tadpoles hatch from the eggs'
or 'tadpoles need water' or 'so tadpoles can live' do not accept 'to protect them from predators'

8. letter of spider name of spider

A Orb Weaving Spider
accept 'orb weaving

1 (L4)
B Jumping Spider accept 'jumping'

C Wolf Spider accept 'wolf'

D House Spider accept 'house
9. (a) (i) mayfly nymph accept 'mayfly' or 'nymph'
(ii) water beetle accept beetle

1 (L4)
(iii) lymnaea
(b) (i) E
if more than one letter is given award no mark accept 'tubifex'

1 (L4)
(ii) A
accept 'mayfly nymph
1 (L4)

B
accept 'water beetle'
answers may be in either order
10.
(a) (i) seal
(ii) any one from

- musk ox
- seal
(iii) hedgehog
(b) Female mammals produce milk to feed their young. $\vee$

Young mammals develop inside their mother's body.

Mammals have hair on their bodies.

> if more than three boxes are ticked, deduct one mark for each incorrectly ticked box minimum mark zero
11. A Evernia

C Usnea

D Parmelia saxatillis
accept spelling errors
both words required
accept ' $P$ saxatillis

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