

Wednesday 1 February 2012 – Afternoon

GCSE ENVIRONMENTAL AND LAND-BASED SCIENCE

B494/03 Care of Animals (Foundation Tier)

Candidates answer on the Question Paper.
A calculator may be used for this paper.

Duration: 45 minutes

OCR supplied materials:
None

Other materials required:

- Pencil
- Ruler (cm/mm)



Candidate forename		Candidate surname	
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Centre number						Candidate number				
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INSTRUCTIONS TO CANDIDATES

- Write your name, centre number and candidate number in the boxes above. Please write clearly and in capital letters.
- Use black ink. HB pencil may be used for graphs and diagrams only.
- Answer **all** the questions.
- Read each question carefully. Make sure you know what you have to do before starting your answer.
- Write your answer to each question in the space provided. Additional paper may be used if necessary but you must clearly show your candidate number, centre number and question number(s).
- Do **not** write in the bar codes.

INFORMATION FOR CANDIDATES

- The number of marks is given in brackets [] at the end of each question or part question.
- The total number of marks for this paper is **36**.
- This document consists of **20** pages. Any blank pages are indicated.

For Examiner's Use	
TOTAL	

Answer **all** the questions.

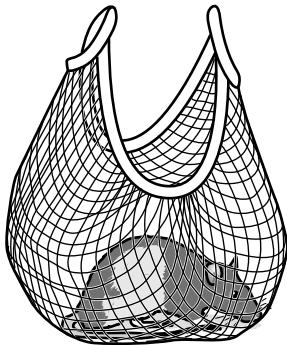
1 The photograph shows a pet rat belonging to Wayne.



Wayne wishes to take his pet rat to school.

Which is the correct way of transporting his rat?

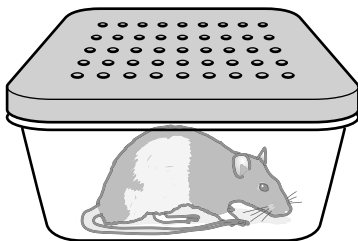
Put a tick (✓) in the box beneath the correct drawing.



string bag
with rat inside



cardboard shoe box
tied and held by string



plastic lunch box with
small holes



Wayne with rat looking
out of jacket pocket

2 The picture shows a cage for a small bird.



Birds are often provided with small items to play with in their cages.

Which item would be the best to place in the cage?



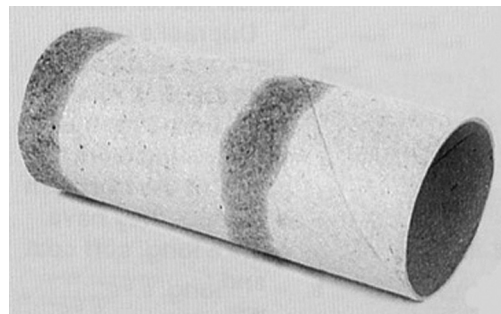
A fluffy mouse



B rope and ball



C mirror and bell



D cardboard tube

Answer A, B, C or D [1]

3 Owners can be injured by their pets if the pets are not held correctly.

Which pet is being held correctly?



A budgerigar



B rabbit



C lizard



D spider

Answer A, B, C or D [1]

4 Fats are important in the diet of animals.

After digestion, fats are either stored or used. What are fats used for?

Put a **(ring)** around the correct answer.

energy

fertility

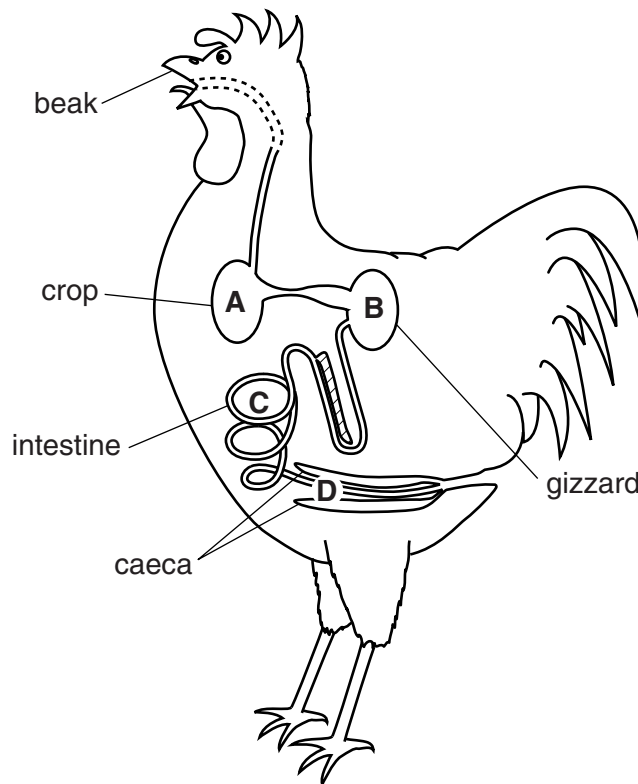
growth

repair

[1]

5 Birds such as chickens need to eat grit.

What part of their digestive system needs grit to carry out its function?



Answer **A, B, C or D** [1]

6 An elderly person living in a flat in a town wants a pet dog for company.

She cannot decide which breed to have.

A vet gives her this question key to help her make the right choice.

<p>Which dog should I choose?</p> <p>1 Do you want a working dog? Do you want a pet dog?</p> <p>2 Do you want a dog to work with sheep? Do you want a guard dog?</p> <p>3 Do you have a house and large garden? Do you live in a flat with no garden?</p> <p>4 Do you want a large dog and to walk your dog a lot? Do you want a small active dog which does not need a lot of exercise?</p>	<p>Solomon's Veterinary Practice</p> <p>If yes: go to question 2 go to question 3</p> <p>choose a Collie choose an Alsatian</p> <p>go to question 4 choose a Miniature Poodle</p> <p>choose a Labrador</p> <p>choose a Fox Terrier</p>
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Use the key to decide which pet would be the most suitable.

Answer [1]

7 Small animals sometimes have health problems with their skin.

Common examples are ringworm, mange, and dermatitis.

Three of the following organisms live on the skin and cause damage.

Which organism does **not** live on the skin?

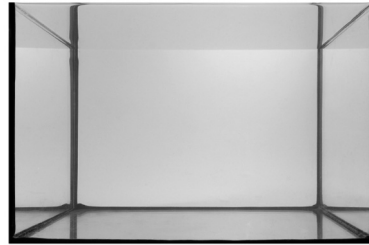
- A bacteria
- B fungi
- C mites
- D worms

Answer **A, B, C** or **D** [1]

8 The goldfish in the bowl is to be moved into the large fish tank shown.



goldfish



fish tank

When setting up the fish tank, which one of the following is **not** a good idea?

- A painting the back of the tank black
- B placing the tank near a window
- C putting plastic plants in the tank
- D resting the tank on a polystyrene mat

Answer **A, B, C** or **D** [1]

9 Animals can bite if not handled correctly.



Which condition could be transferred to humans by an animal bite?

- A influenza (flu)
- B rickets
- C salmonella
- D tetanus

Answer **A, B, C or D** [1]

10 Concentrates and succulents are two types of animal food.

Look at the table.

	concentrates	succulents
A	balanced ration	low water content
B	high in protein content	high water content
C	moist food	low carbohydrate content
D	soft food	mainly plant matter

Which pair of descriptions of concentrates and succulents is correct?

Answer **A, B, C** or **D** [1]

11 The photograph is of a chicken.



Routine health checks should be carried out on small animals.

(a) Which routine check has **not** been carried out on this bird?

..... [1]

(b) List **two** other routine health checks that should be carried out on birds.

.....
 [2]

12 The photographs are of two rabbits.



A



B

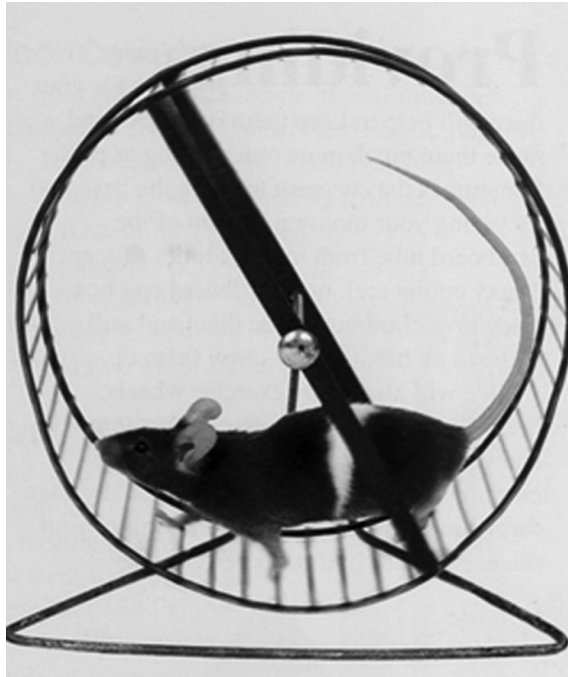
Their owner wants to exhibit at the local rabbit show.

Which rabbit would be most likely to win a prize?

Give a reason for your answer.

.....
..... [1]

13 The photograph shows a mouse in a wheel.



State **two** reasons why a wheel is put into the mouse's cage.

- 1
- 2 [2]

14 The photographs show two ways of providing water to a small animal.



plastic bowl



water bottle

State **two** advantages of using the water bottle rather than the plastic bowl.

- 1
- 2 [2]

15 Dogs have been bred for different activities over the years.

Two such activities are shooting and hunting.

Name **two** breeds that have been developed for **hunting**.

- 1
- 2 [1]

16 The photograph shows a degu feeding.



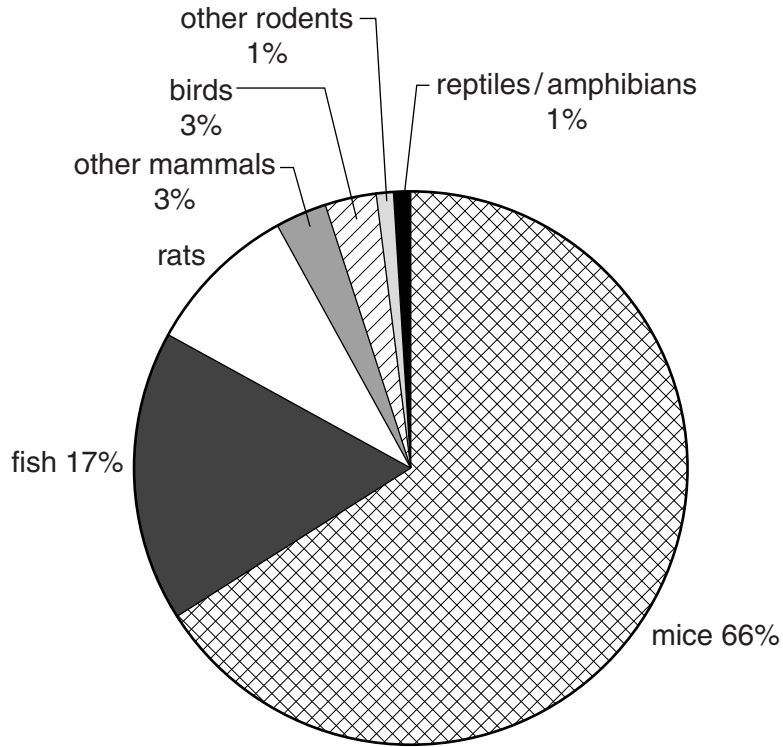
The mouth has an important function in digestion.

State **three** functions of the mouth in small animals.

- 1
- 2
- 3 [3]

17 Some small animals can be used for research.

The pie chart shows the percentage of different types of animal used.



(a) Which type of animal is used the most?

.....

[1]

(b) What percentage of the total animals used are rats?

.....

[1]

18 Many different types of research use animals for testing.

Look at the table.

species of animal	type of research				
	biological	medical	veterinary	environmental	educational
cat	61	–	299	–	–
dog	5	5499	130	403	–
gerbil	515	542	27	–	–
guinea pig	1753	25921	1333	–	118
hamster	1283	1439	576	–	–
mouse	775746	355728	17365	17545	841
rabbit	1157	11232	1954	1632	16
rat	96415	216653	75	26275	609

(a) Which **type of research** does not use dogs?

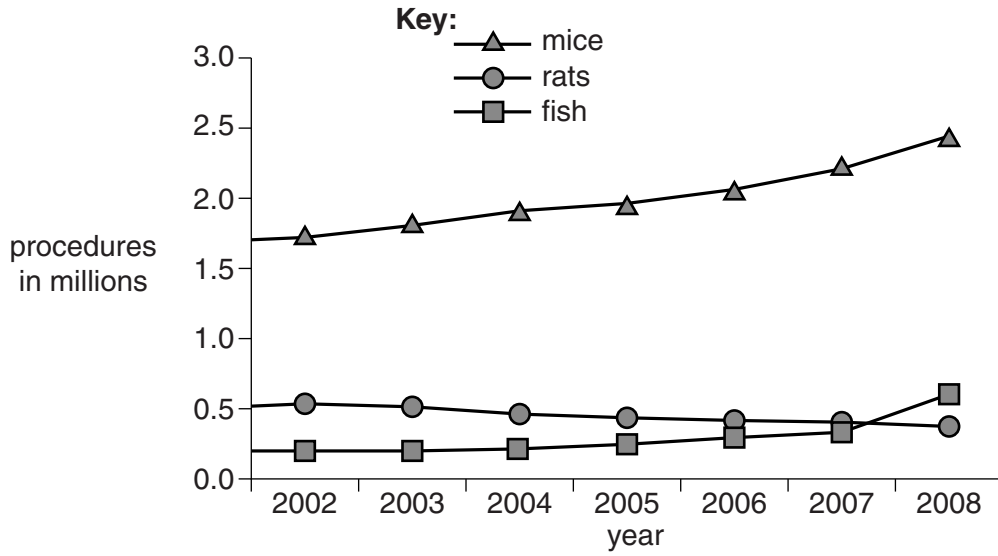
..... [1]

(b) Which **type of research** carries out the most animal experiments?

..... [1]

19 An animal experiment can involve many procedures (tests).

The graph shows the number of procedures carried out from 2002 to 2008.



(a) State **one** trend that is shown in the data.

.....
 [1]

(b) Comment on the pattern shown by the data for rats **and** fish.

.....
 [1]

20 The photographs show people working with dogs.



There are hazards when you work with small animals.

Explain why it is important to follow a teacher's instructions and behave properly when working with small animals.

.....

.....

.....

.....

..... [3]

21 Shows are competitions.

Some owners take their animals to shows to try and win prizes.



Showing involves

- preparing the animal
- transporting the animal
- displaying the animal at the show.

Give **two** possible risks to the animal from showing.

In each case suggest how the risk may be reduced.

risk 1

.....

risk 2

..... [2]

22 The photograph shows an overweight dog.

Over-feeding can cause pets to become overweight.



Suggest other possible causes of pets being overweight.

.....

.....

.....

.....

..... [3]

END OF QUESTION PAPER

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