

Friday 22 June 2012 – Afternoon

GCSE ENVIRONMENTAL AND LAND-BASED SCIENCE

B494/03 Care of Animals (Foundation Tier)

Candidates answer on the Question Paper.

OCR supplied materials:
None

Other materials required:

- Electronic calculator
- Pencil
- Ruler (cm/mm)

Duration: 45 minutes



Candidate forename		Candidate surname	
Centre number		Candidate number	

MODIFIED LANGUAGE

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



A



B



C



D

Which picture shows the best way to hold a bird?

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

2 The drawing shows a cage on sale in a pet shop.

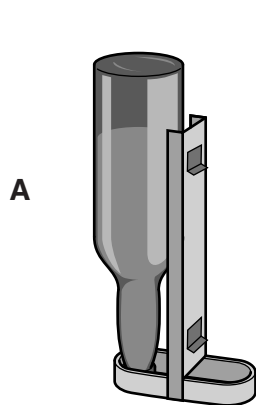
For which pet would this cage be best?

- A budgerigar
- B hamster
- C guinea pig
- D rabbit

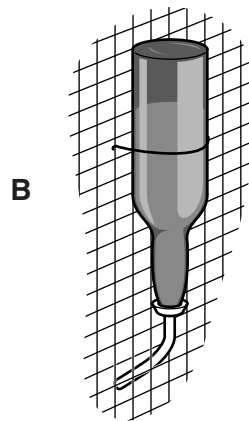
Answer **A, B, C** or **D** [1]

3 Small mammals need clean water to drink.

The drawings show different types of water container for small animals.



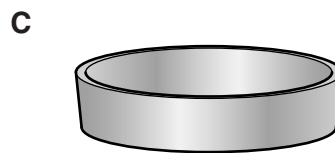
bottle on stand



bottle on cage wire



glass jar

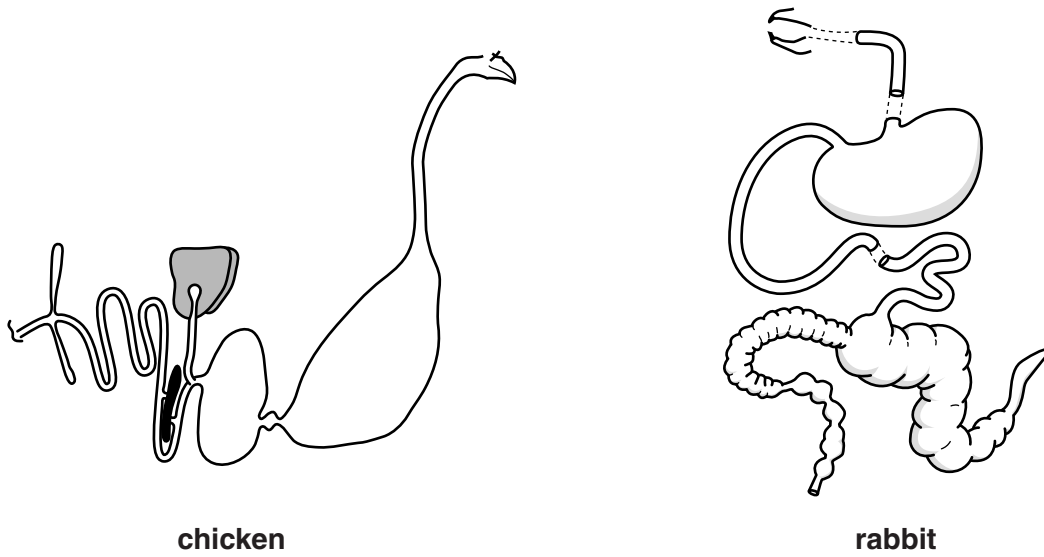


tin dish

Select the best water container for rabbits or guinea pigs.

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

- 4 The diagrams show the digestive systems of a chicken and a rabbit.



The **caecum**, **crop** and **teeth** are found in **either** the chicken **or** the rabbit.
Label the caecum, crop and teeth on the correct diagram.

[3]

5 Clare wants to have a cat as a family pet.

She can get an adult cat from an animal charity.

Her parents give her a list of things to think about.



What are the most important things for Clare to think about when choosing a cat for her family?

Put ticks (✓) in the boxes next to the **two** most important things.

breed markings

☐

colour

☐

conformation

☐

health

☐

hunting ability

☐

litter size

☐

pedigree

☐

temperament

☐

[2]

- 6 The pictures show guinea pigs feeding on three different types of food.

concentrate



roughage



succulent



.....

Types of food can be described by their contents.

Descriptions:

high fibre

high moisture

high nutrient

Label each picture with the correct description of its contents.

[2]

7 This is a Health Card for a sick animal.

HEALTH CARD	
Animal identification mark	<i>blue 56</i>
date	<i>06/06/2011</i>
sex <i>female</i>	age <i>3 years</i>
owner	<i>P Weekes</i>
eyes/nose	<u>observations</u> eyes – red and weeping nose – runny
coat	dull, patches of fur falling out
droppings
behaviour

The Health Card has no entries under **droppings** and **behaviour**.

Complete the Health Card with the observations you might expect for a sick animal.

[2]

8 The photograph shows a cat feeding.



The food for a cat includes:

- protein from a meat, fish or poultry source
- essential amino acids
- vitamins, minerals, enzymes and fats
- water.

Which **food group** is missing from this list?

..... [1]

- 9 The photograph shows a parrot cage.



State **one** way this cage helps stop the parrot getting bored.

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

Small mammals reproduce.



Birds reproduce.



Some features of reproduction are:

- true for small mammals
- true for birds
- true for both.

The table shows some examples.

Complete the table by writing in some other features of reproduction.

true for small mammals	true for birds	true for both small mammals and birds
embryo develops in the mother	females lay eggs	males have a penis

[3]

- 11 Bacteria, viruses and fungi can cause ill health.

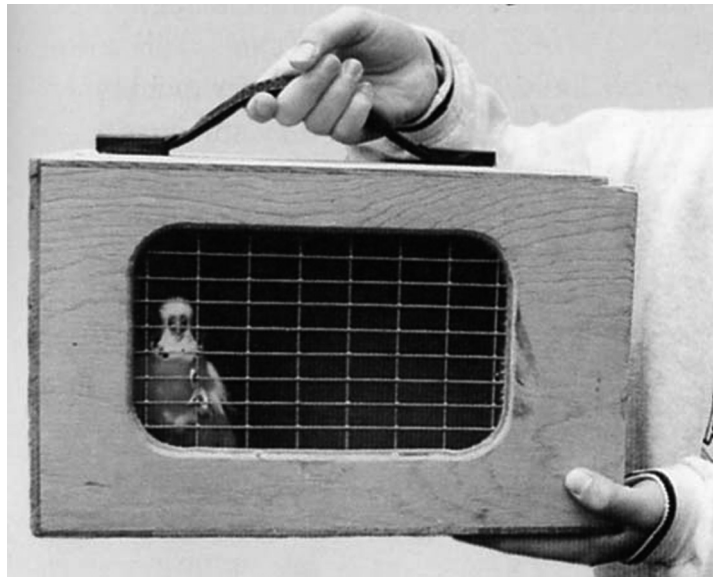
Choose a mammal, bird, fish, reptile or amphibian you have studied.

Animal chosen

Name or describe a **fungal disease** which affects this animal.

.....
 [1]

- 12 The picture shows a box for transporting small animals.



The box is made of wood. It cannot be crushed.

State and explain **two other** ways this box is fit for purpose.

.....

 [2]

13 Practical work with small animals can be hazardous **to the handler**.



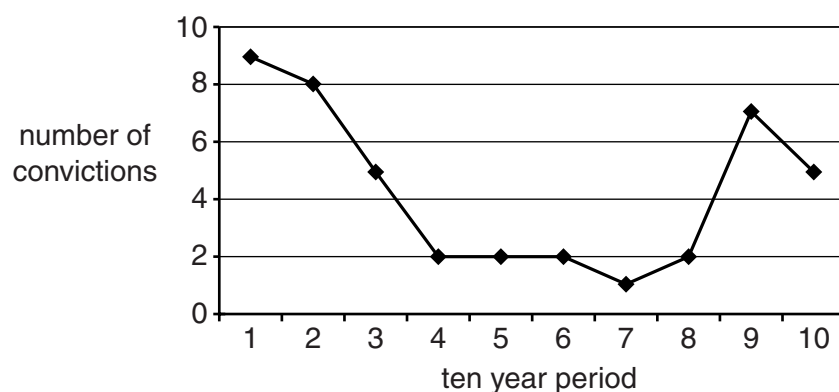
Complete the table explaining possible hazards and their prevention.

hazard	method of prevention
being infected with tetanus by getting bitten	
	wear thin plastic gloves

[2]

- 14** The Dangerous Dogs Act bans people from keeping **fighting dogs**.

The graph shows, over a ten year period, the number of convictions for having a fighting dog.



How many convictions were there in year 9?

Answer [1]

- 15** The table shows the number of **prosecutions** over a 10 year period that involved fighting dogs.

prosecution category	ten year period									
	1	2	3	4	5	6	7	8	9	10
having a fighting dog	15	23	12	5	4	6	1	5	1	8
breeding a fighting dog	1	6	1	2	1	6	4	15	3	2
having a fighting dog without a muzzle in a public place	12	7	11	9	4	3	2	2	3	1

What trend is shown in the number of prosecutions for **having a fighting dog without a muzzle in a public place**?

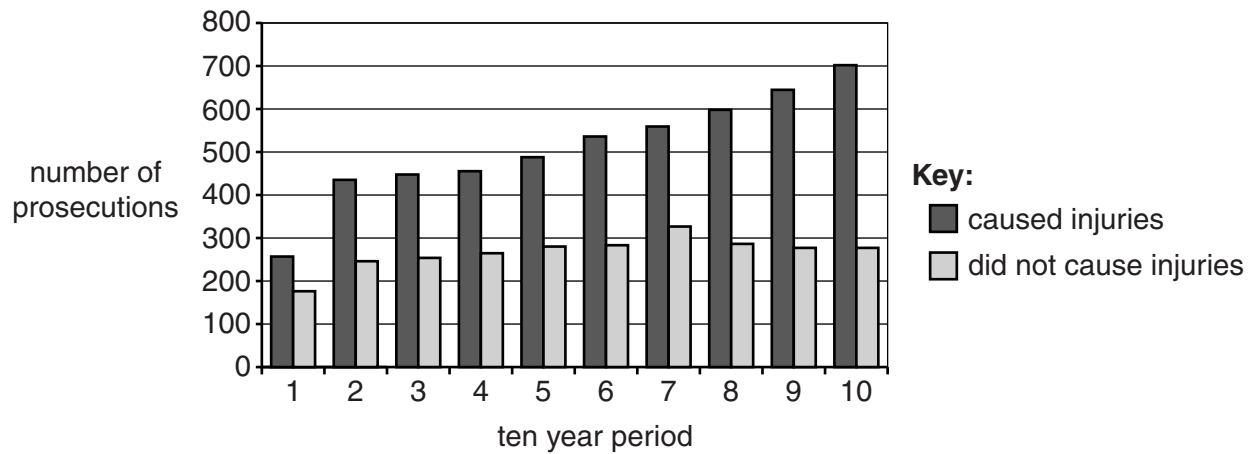
..... [1]

16 Owners can be prosecuted if they do not control their dogs in public.

Sometimes these dogs cause injuries.

The bar chart shows, over a ten year period, the prosecutions where the dogs:

- caused injuries
- did not cause injuries.



Describe the trends in prosecutions shown by the graph.

.....

.....

.....

..... [2]

17 Some people keep tropical fish.

They must be careful not to put too many fish in a tank.

The table gives some data about the maximum stocking rates for different sized fish.

	stocking rates		
capacity of tank in litres	number of fish of 1 cm length	number of fish of 2 cm length	number of fish of 4 cm length
50	16	8	4
			10

What size tank is needed for ten fish of 4 cm length?

Show your working.

Answer litres **[2]**

- 18 The routine care of small mammals means they have to be handled.



Explain how to handle a small mammal so that it comes to **no** harm.

.....

.....

.....

.....

..... [3]

19 The photograph is of a show champion budgerigar.



Suggest the features that make this budgerigar a show champion.

.....

.....

..... [2]

- 20 The photograph shows a student recording data about a pet rabbit.



Computers are a very good way of keeping records when looking after animals.

- (a) State **two** types of record that should be kept when looking after animals.

1

2 [1]

- (b) Explain how using ICT makes record keeping more efficient.

.....

.....

..... [2]

END OF QUESTION PAPER

PLEASE DO NOT WRITE ON THIS PAGE



Copyright Information

OCR is committed to seeking permission to reproduce all third-party content that it uses in its assessment materials. OCR has attempted to identify and contact all copyright holders whose work is used in this paper. To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced in the OCR Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download from our public website (www.ocr.org.uk) after the live examination series.

If OCR has unwittingly failed to correctly acknowledge or clear any third-party content in this assessment material, OCR will be happy to correct its mistake at the earliest possible opportunity.

For queries or further information please contact the Copyright Team, First Floor, 9 Hills Road, Cambridge CB2 1GE.

OCR is part of the Cambridge Assessment Group; Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.