

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	
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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



A



B



C



D

Which picture shows the best way to handle a bird?

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

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

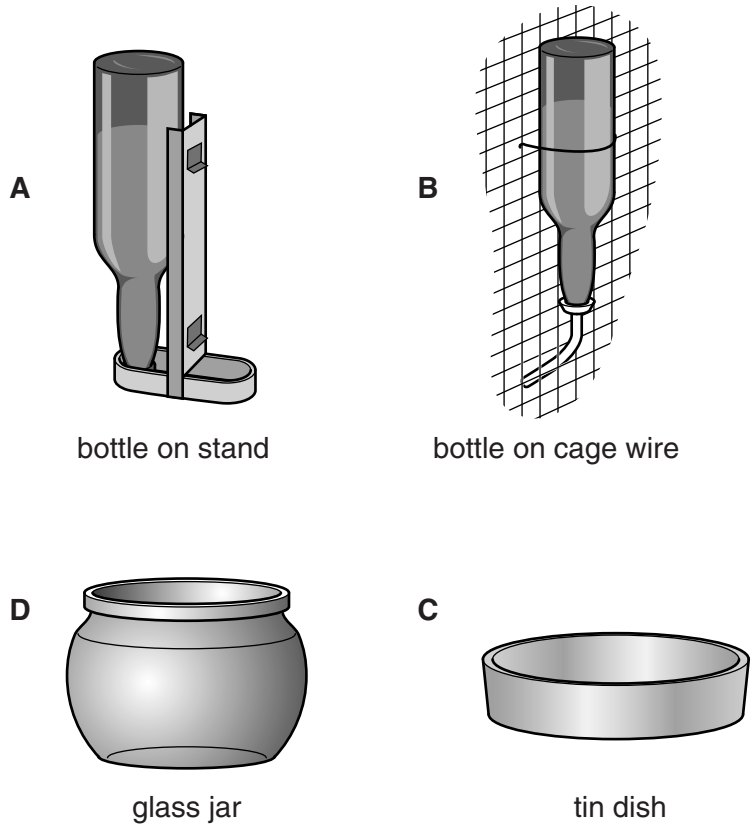
For which pet would this cage be suitable?

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

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

3 Small mammals need a supply of clean water.

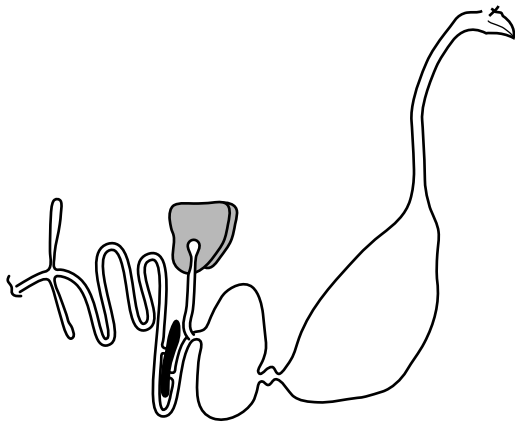
The drawings show different types of water container for small animals.



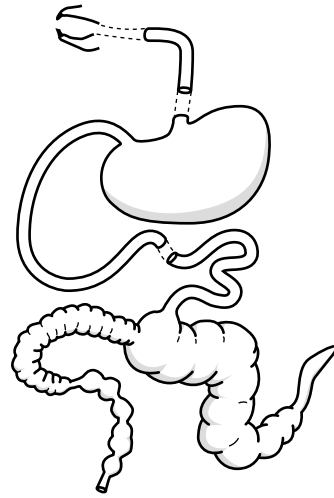
Select the most suitable water container for rabbits or guinea pigs.

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

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



chicken



rabbit

The **caecum**, **crop** and **teeth** are found in **either** the chicken **or** the rabbit.
Label the position of each of these structures 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 | <input type="checkbox"/> |
| colour | <input type="checkbox"/> |
| conformation | <input type="checkbox"/> |
| health | <input type="checkbox"/> |
| hunting ability | <input type="checkbox"/> |
| litter size | <input type="checkbox"/> |
| pedigree | <input type="checkbox"/> |
| temperament | <input type="checkbox"/> |

[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	observations		
	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.



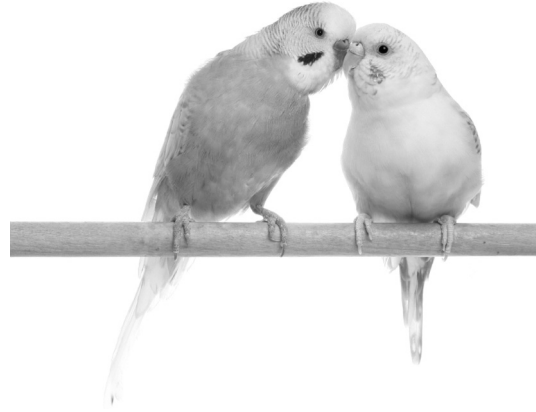
State **one** way this cage helps prevent the parrot from becoming bored.

.....
..... [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 Ill health can be caused by bacteria, viruses and fungi.

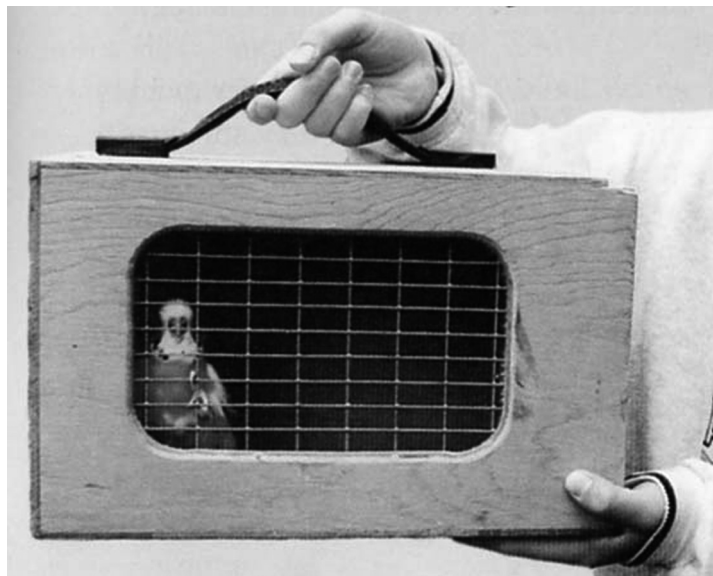
Choose a mammal, bird, fish, reptile or amphibian you have studied.

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 so 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**.



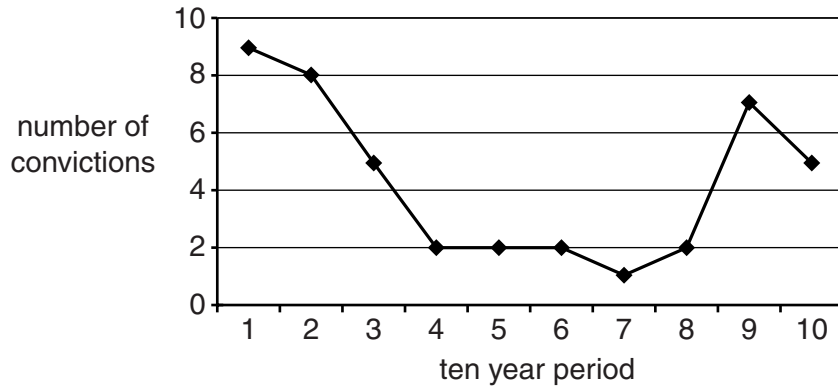
Complete the table explaining possible hazards and their prevention.

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 the number of convictions over a ten year period 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**?

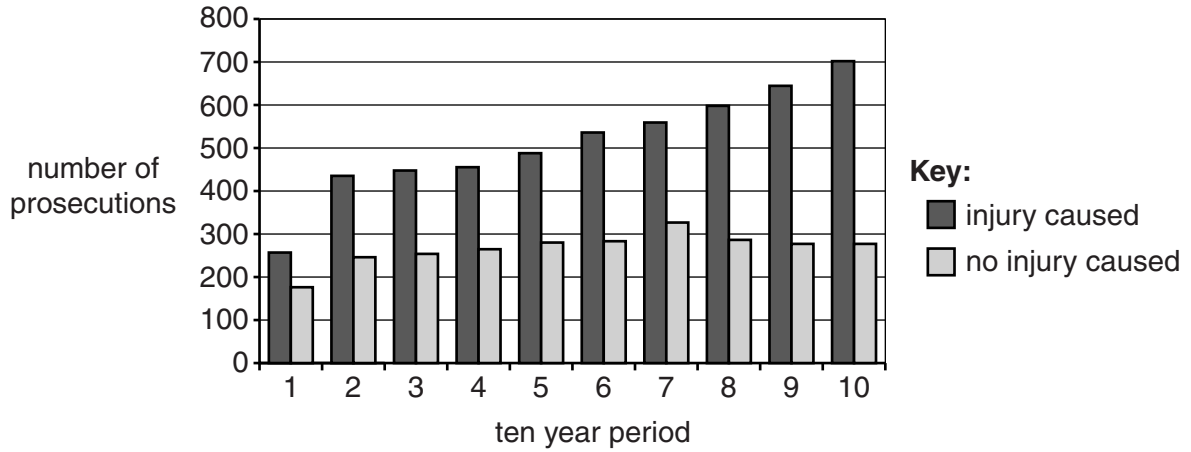
..... [1]

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 would be 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 do this so that the **animal** 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

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