

**GENERAL CERTIFICATE OF SECONDARY EDUCATION**  
**ENVIRONMENTAL AND LAND-BASED SCIENCE**  
Care of Animals (Foundation Tier)

**B494/01**

Candidates answer on the Question Paper

**OCR Supplied Materials:**  
None

**Other Materials Required:**

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

**Thursday 24 June 2010**  
**Afternoon**

**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 clearly in capital letters, your Centre Number and Candidate Number in the boxes above.
- Use black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure that you know what you have to do before starting your answer.
- Answer **all** the questions.
- Do **not** write in the bar codes.
- 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).

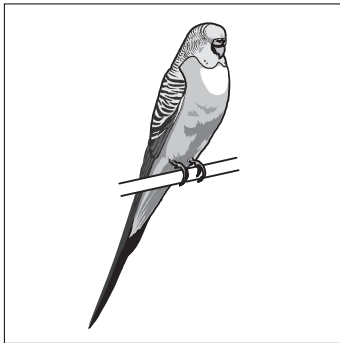
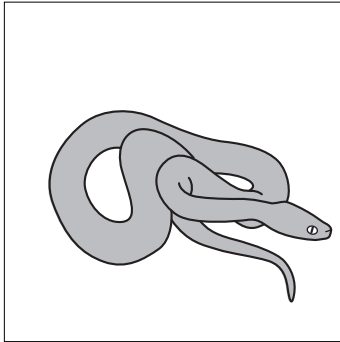
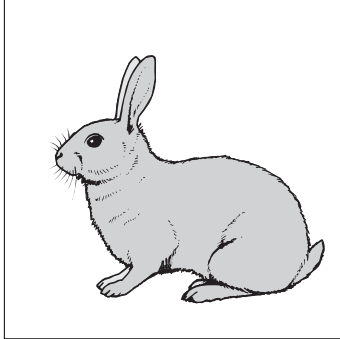
**INFORMATION FOR CANDIDATES**

- 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 **12** pages. Any blank pages are indicated.

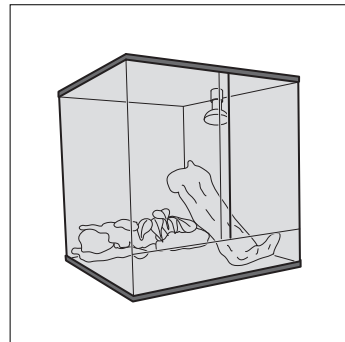
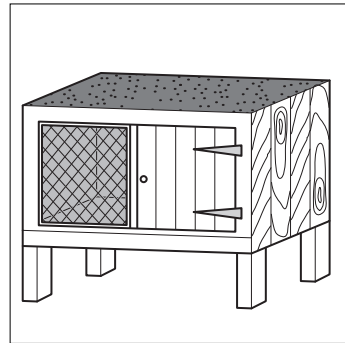
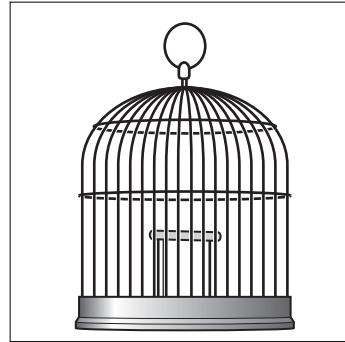
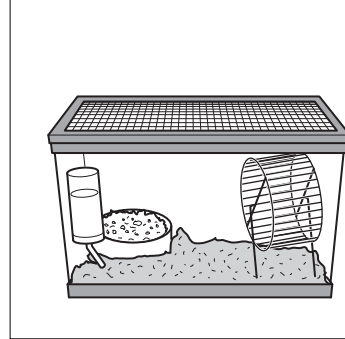
Answer **all** the questions.

1 Draw a straight line to join each **animal** to its correct **home**.

**animal**



**home**



[2]

3

2 The table compares reproduction in mammals and birds.

Write each statement from the list below in the correct column.

**milk is produced**

**young develop inside an egg**

**young develop inside mother**

mammals reproduction	birds reproduction

[2]

3 The photograph shows a bantam chicken prepared for a show.



Complete the sentence. Choose a word from the list.

**behaviour**

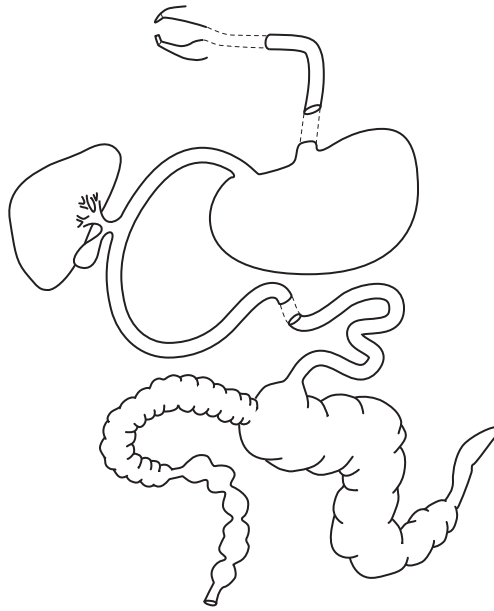
**cage**

**markings**

**maturity**

To gain a first prize at the show this animal must have the correct ..... for the breed. [1]

- 4 (a) The diagram shows the digestive system of a rabbit.



Label the caecum.

[1]

- (b) What does the caecum do?

Put a tick (✓) in the box next to the correct answer.

absorbs digested food

absorbs water

breaks down fibre

stores water

[1]

- 5 An animal needs protein in its diet.

What does a healthy animal use protein for?

Put a (ring) around the correct answer.

energy

growth

storage

warmth

[1]

6 Which one of the following could result from the bite of a small animal?



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

**B S E**

**roundworm infection**

**chicken pox**

**tetanus**

**[1]**

7 Why is fibre included in a small mammal's diet?

Put a tick (✓) in the box next to the correct answer.

to help grow a healthy coat of hair

to help the movement of food through the gut

to provide the animal with calcium

to provide the animal with cellulose

**[1]**

8 The chart shows a health record card for a small animal.

This animal is unwell.

For each health check write down an observation that may show the animal is unwell.

HEALTH CARD	
<b>Animal identification mark</b> GZ6 <b>date</b> 18/9/2001 <b>sex</b> Male <b>age</b> 2 years <b>owner</b> Khan	
health check	observations
eyes/nose	
coat	
droppings	
behaviour	

[4]

9 The photograph shows a tall pottery bowl.



The bowl contains water for rabbits and guinea pigs.

The rabbits and guinea pigs live in wooden hutches.

Describe **two** problems that might occur by supplying water in this way.

.....

.....

..... [2]

10 The photographs show three types of glove.



leather glove



wollen glove



rubber glove

(a) Select one mammal from the list below.  
State which glove you would use when handling this mammal.  
Explain the reason for your choice.

- gerbil**
- guinea pig**
- hamster**
- mouse**
- rabbit**
- rat**

mammal selected ..... type of glove .....

reason .....

..... [1]

(b) Select one reptile from the list below.  
State which glove you would use when handling this reptile.  
Explain the reason for your choice.

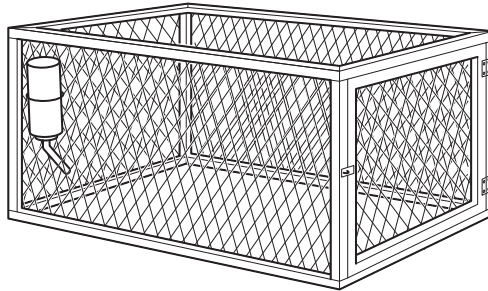
- lizard**
- snake**
- terrapiin**
- tortoise**

reptile selected ..... type of glove .....

reason .....

..... [1]

11 The picture shows an open top run that can be used for keeping rabbits and guinea pigs.  
The animals are only kept outside during **good** weather.



Suggest **two** possible dangers of keeping small animals outside in this run.

1 .....

2 .....

..... [2]

12 Small animals have to be transported

- from pet shop to home
- to shows.

The photograph shows how **not** to transport small animals.



For a named animal state and explain **two** requirements for safe animal transport.

type of animal .....

1 .....

2 .....

..... [2]



13 The table lists hamster species and their size range.

hamster species	size range (cm)
Campbell's	8.3 – 12.1
Chinese	10.2 – 12.7
Roborovskii's	3.8 – 5.1
Syrian	15.2 – 17.5
Winter White	5.7 – 10.2

- (a) Which hamster species is the biggest? ..... [1]
- (b) Which species has the smallest variation in size? ..... [1]

14 The table compares hamster species for a range of characteristics.

hamster species	size (cm)	ease of handling by children	aggression shown to other hamsters
Campbell's	8.3 – 12.1	***	*
Chinese	10.2 – 12.7	**	***
Roborovskii's	3.8 – 5.1	*	****
Syrian	15.2 – 17.5	*****	*****
Winter White	5.7 – 10.2	***	**

Key high \*\*\*\*\* low \*

A school wishes to breed hamsters.

To do this the hamsters must live together in a group.

Which species is the most suitable?

Give **two** reasons for your choice.

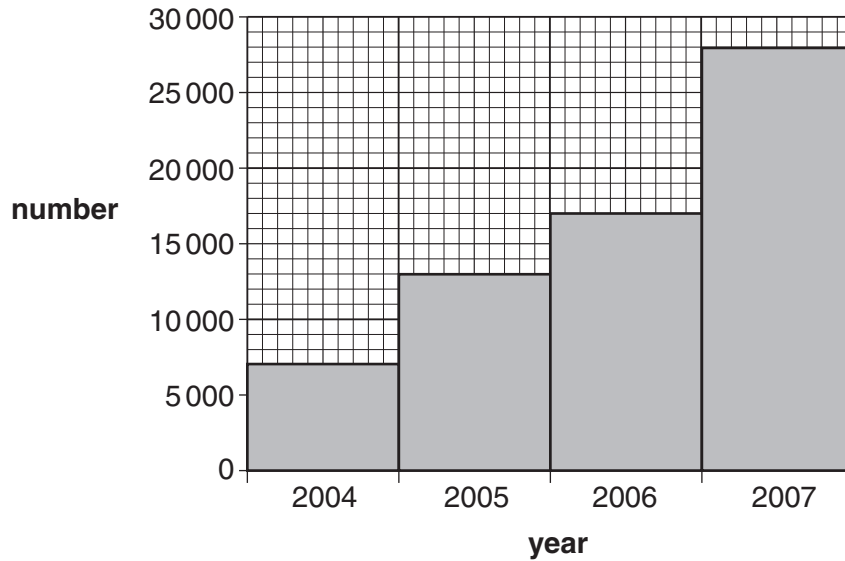
Use information from the table to answer the question.

hamster species .....

1 .....

2 ..... [2]

- 15 The bar chart shows the number of dogs and cats micro-chipped by the RSPCA from 2004 to 2007.

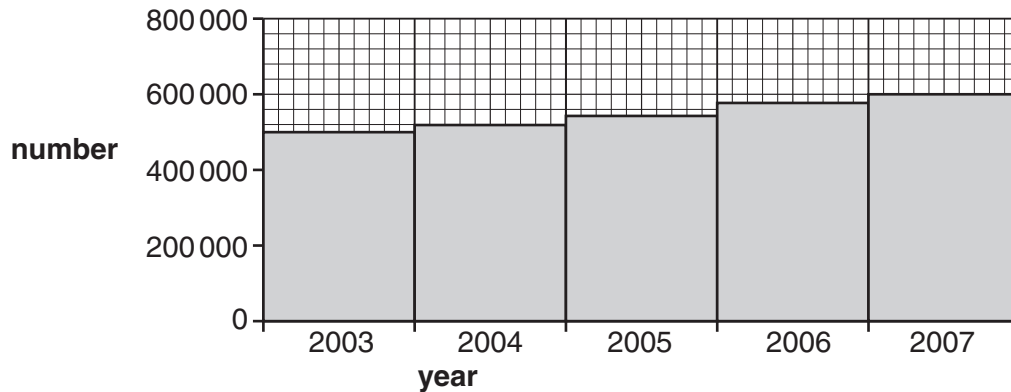


What is the **increase** in the numbers of dogs and cats micro-chipped between 2004 and 2007?

.....

[1]

- 16 The bar chart shows the number of cats and dogs registered on databases, 2003 to 2007.



By what percentage have registrations **increased** between 2003 and 2007?

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

13%

20%

25%

33%

[1]

17 A dog is a type of small animal.

A fox terrier is a breed of dog.

Choose a breed of any small animal you have studied.

Describe **three** characteristics of this breed that make it different from other breeds.

type of animal ..... breed of animal .....

.....

.....

.....

..... [3]

18 Small animals are kept as pets.

State two **other** reasons for keeping small animals.

1 .....

2 ..... [2]

19 The photographs show a mongrel dog and a show dog.



Describe the **process** of selective breeding to produce a show animal.

.....

.....

.....

.....

..... [3]

**END OF QUESTION PAPER**

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