



GENERAL CERTIFICATE OF SECONDARY EDUCATION ENVIRONMENTAL AND LAND-BASED SCIENCE

B495/01

Livestock Husbandry (Foundation Tier)

Candidates answer on the question paper

OCR Supplied Materials:

None

Other Materials Required:

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

Thursday 4 June 2009 Morning

Duration: 45 minutes



Candidate Forename				Candidate Surname			
Centre Numb	ber			Candidate N	umber		

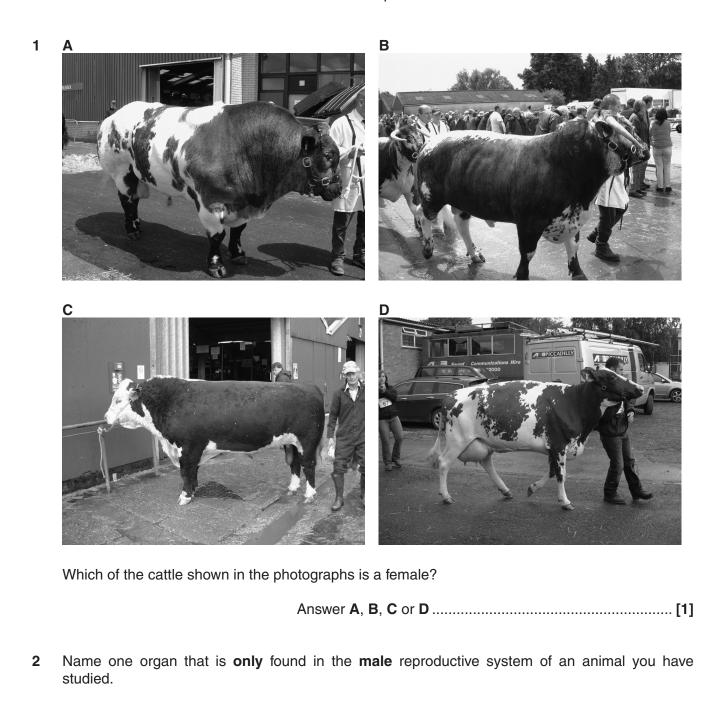
INSTRUCTIONS TO CANDIDATES

- 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 guestion 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, however additional paper may be used if necessary.

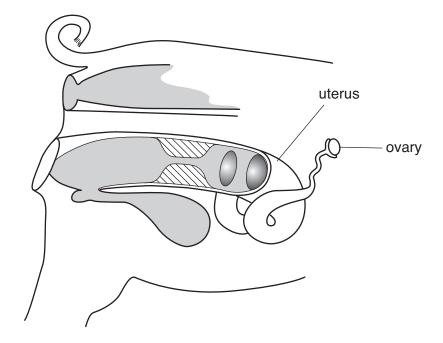
INFORMATION FOR CANDIDATES

- 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.

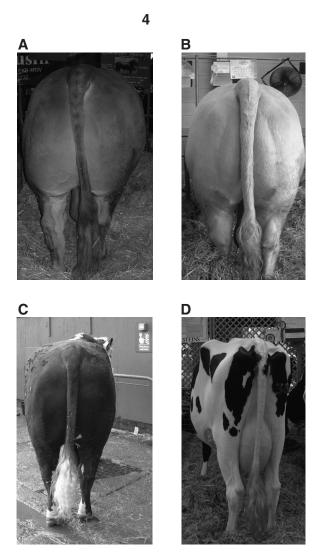
Answer all the questions.



3 The diagram shows the reproductive system of a sow (female pig).



What is the job (function) of the following parts of the reproductive system?
ovary
uterus
[2]



Which **one** of the animals in the photographs is a dairy breed?

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

5 Belgian Blue





Hereford





Which of the cattle is a modern, highly selected breed?

[1]
[1]

6	Н	lay, si	lage	and	st	traw	are	all	fc	dc	der	crops	tha	t can	be	fed	to	lives	tocl	k in	win	ter.
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Describe the differences in production for hay, silage and straw.

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7	Choose	the (correct	word	from	the	lict k	elow to	ററ	mnlete	the	following	sentences.
	CHOOSE	เมษา	JULIEUL	word	HUHH	เมเษ	IIOL L	יו ייטוסע	\mathcal{L}	HIDICLE	เมาน	IOIIOWIIIG	30111011003.

	-					
^	h	ro	m	CC	m	0

gene

genotype

mutations

phenotype

The genetic information of an animal or plant is carried by pairs of	
located in the nucleus of the cell.	
Each characteristic is coded for by a particular for that characteristic	٥.
All the genetic information of an animal is called its and the	
characteristics that this produces is the	[4]

8 The photograph shows a poultry house that is sitting on a sled. The sled allows the house to be easily moved around the field.



Moving the house allows the grass to recover.

Suggest two other advantages of being able to move the poultry house.
advantage 1
advantage 2

.....[2]

	/
9	It is important that a farmer knows when cows come on to heat (are ready to mate).
	Explain why it is important that a farmer knows when cows come onto heat.
	[2]
10	The photograph shows a dairy farmer using a computer to keep his farm records.
	Suggest three different types of record farmers might keep on their computers to manage the breeding of their cattle.
	1
	2

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3......**[3]**

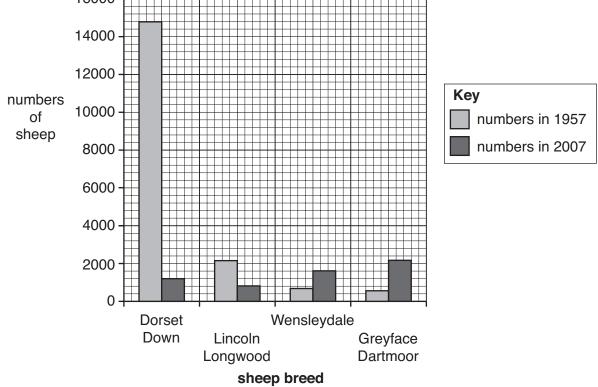
Farmers try to improve their stock by b	reeding.		
Suggest two things a farmer might try	to improve	in stock by better breeding.	
1			
2			[2]
Animals can be farmed using intensiv . Each has different features.	e or exten	sive systems.	
intensive farm system		extensive farm s	ystem
Write down the following descriptions in	n their corr	ect places in the table.	
animals usually kept outside		high labour input	
animals often kept indoors		low energy costs	
high equipment costs		low equipment costs	
high energy costs		low labour input	[4]
	Suggest two things a farmer might try 1	Animals can be farmed using intensive or extensions. Each has different features. intensive farm system Write down the following descriptions in their corresponding animals usually kept outside animals often kept indoors high equipment costs	Suggest two things a farmer might try to improve in stock by better breeding. 1

	9	
13	You need to be careful when you go near a farm animal.	
	Suggest one way you could let the animal know you are moving close to it.	
		[1]
14	Handling pigs can be difficult.	
	The picture shows someone using a board to help move a pig.	
	THWAITES	
	Suggest how this piece of equipment makes handling pigs safer and easier.	

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.....[2]

15	15 Which of the following is not a sign of loss of condition?						
	A	dull coat					
	В	gaining weight					
	С	poor appetite					
	D	sunken eyes					
		Answer A , B , C or D [1]					
16	The	e graph below shows the changes in numbers of some rare breed of sheep since 1957.					
		16000					



(a)	Which breed of sheep has shown the greatest increase in numbers?
	[1]
(b)	Which two breeds of sheep are most at risk of extinction?
	and

17 Hens produce eggs of different sizes.

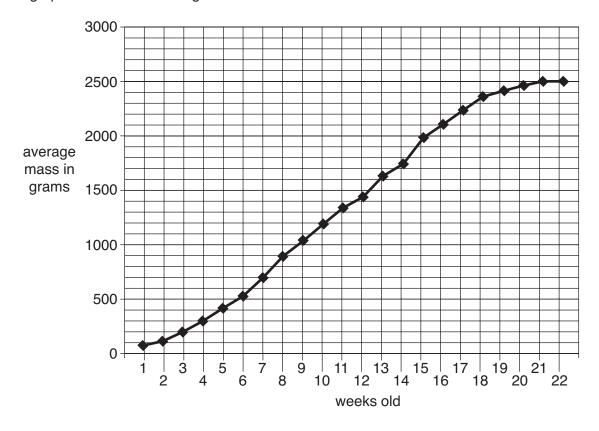
These eggs are graded by mass.

grade	1	2	3	4	5	6	7
range of mass (g)	>70	70–66	65–61	60–56	55–51	50–46	<46

(a)	What is the range of mass for grade 2 eggs?	
		[1]
(b)	An egg has a mass of 53 g.	
	What grade is it?	
		[1]

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18 The graph shows how chicks grow.



(a) What is the average mass of the chicks when they are 7 weeks old?

[1	1]	
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(b) At what age do the chicks stop growing?

[1]
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END OF QUESTION PAPER



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