

# **GCSE**

# **Environmental and Land-Based Science**

General Certificate of Secondary Education

Unit **B495/03/01:** Livestock Husbandry (Foundation Tier)

# Mark Scheme for June 2012

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This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which marks were awarded by examiners. It does not indicate the details of the discussions which took place at an examiners' meeting before marking commenced.

All examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes should be read in conjunction with the published question papers and the report on the examination.

OCR will not enter into any discussion or correspondence in connection with this mark scheme.

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## **Annotations**

Used in the detailed Mark Scheme:

Annotation	Meaning			
/	alternative and acceptable answers for the same marking point			
(1)	separates marking points			
not/reject	answers which are not worthy of credit			
ignore	statements which are irrelevant - applies to neutral answers			
allow/accept	answers that can be accepted			
(words)	words which are not essential to gain credit			
words	underlined words must be present in answer to score a mark			
ecf	error carried forward			
AW/owtte	alternative wording			
ORA	or reverse argument			

## Available in scoris to annotate scripts

Annotation	Meaning
?	indicate uncertainty or ambiguity
<b>100</b>	benefit of doubt
<u>cen</u>	contradiction
×	incorrect response
EG.	error carried forward
0	draw attention to particular part of candidate's response
	draw attention to particular part of candidate's response
<b>~~</b>	draw attention to particular part of candidate's response
NAME:	no benefit of doubt

Annotation	Meaning
	reject
	correct response
[]	draw attention to particular part of candidate's response
A	information omitted

### **Subject-specific Marking Instructions**

- a. If a candidate alters his/her response, examiners should accept the alteration.
- b. Crossed out answers should be considered only if no other response has been made. When marking crossed out responses, accept correct answers which are clear and unambiguous.

E.g.

For a one mark question, where ticks in boxes 3 and 4 are required for the mark:

Put ticks (✓) in the two correct boxes.	Put ticks $(\checkmark)$ in the two correct boxes.	Put ticks $(\checkmark)$ in the two correct boxes.
		<b>₹</b>
		姥
*	<b>✓</b>	<b>✓</b>
<b>₹</b>	*	<b>✓</b>
This would be worth 1 mark.	This would be worth 0 marks.	This would be worth 1 mark.

c. The list principle:

If a list of responses greater than the number requested is given, work through the list from the beginning. Award one mark for each correct response, ignore any neutral response, and deduct one mark for any incorrect response, e.g. one which has an error of science. If the number of incorrect responses is equal to or greater than the number of correct responses, no marks are awarded. A neutral response is correct but irrelevant to the question.

d. Marking method for tick boxes:

Always check the additional guidance.

If there is a set of boxes, some of which should be ticked and others left empty, then judge the entire set of boxes.

If there is at least one tick, ignore crosses. If there are no ticks, accept clear, unambiguous indications, e.g. shading or crosses.

Credit should be given for each box correctly ticked. If more boxes are ticked than there are correct answers, then deduct one mark for each additional tick. Candidates cannot score less than zero marks.

E.g. If a question requires candidates to identify a city in England, then in the boxes

Edinburgh	
Manchester	
Paris	
Southampton	

the second and fourth boxes should have ticks (or other clear indication of choice) and the first and third should be blank (or have indication of choice crossed out).

Edinburgh			✓			✓	✓	✓	✓	
Manchester	✓	×	✓	✓	✓				✓	
Paris				✓	✓		✓	✓	✓	
Southampton	✓	×		✓		✓	✓		✓	
Score:	2	2	1	1	1	1	0	0	0	NR

# B495/03/01 Mark Scheme June 2012

Q	Question CB1		СВТ	Answer	Mark	Guidance		
1	(a)		1	B hens	1			
	(b)		2	does not rot/lasts longer easier to clean saves resources/waste recycled	2	any 2 accept – easier to move		
2			3	bony lean frame large udder	2			
3			4	<pre>same - two of: dry, well ventilated; water supply; draught free OWTTE different - one of: size; gate/door type OWTTE</pre>	3	reject references to bedding Ignore materials accept shelter		
4			5	Hardiness	1			
5			6	bulk – hay, straw, silage, pulps, grass, maize any suitable example  concentrate – growers pellets/meal/cake, milk powder any suitable example	2	any 2 reject pellets alone or course meal lgnore 'straights' e.g. barley, wheat		
6	(a)		7	white is dominant/ black recessive	1			
	(b)		7	F1/ F1 hybrid / heterozygous	1	reject hybrid		
7			8	foot and mouth – virus mastitis – bacteria ring worm – fungi roundworm – parasite	3	4/3 right for 3 marks, 2 for 2, 1 for 1 mark		
8	(a)		9	<b>D</b> salmonella	1			

Q	uestic	stion CBT		Answer		Guidance
	(b)	1	10	washing hands; wearing protective gloves; only having healthy stock; keeping housing clean/dry; remove clothing prior to going indoors; don't eat when working with animals; purchase pre-vaccinated stock	2	any 2
9		1	11	ovary, oviduct, fertilised, uterus	3	all correct for 3 marks, 2-3 correct for 2 marks, 1 correct for 1 mark
10	(a)	1	12	5(°C)	1	
	(b)	1	13	as the temperature increases the growth rate increases up to (15°C); then gradually declines; Feed intake decreases with temperature (accept converse)	3	
11	(a)	1	14	litter 5 should be 16	1	
	(b)	1	15	10.3	1	accept 10
12		1	16	inside v outside; controlled v uncontrolled environment; low v high density; easy to monitor v hard to monitor; provide more v less food; easier disease transmission in intensive compared with extensive	4	1 mark for each valid comparison between each system
13		1	17	candidates should cover numbers of animals, selection of populations, examples of controls, how results will be compared	4	
				Total	36	

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