

Environmental and Land-Based Science

General Certificate of Secondary Education

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

Mark Scheme for January 2013

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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

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
Annotation	Meaning
	indicate uncertainty or ambiguity
	benefit of doubt
	contradiction
	incorrect response
	error carried forward
	draw attention to particular part of candidate's response
	draw attention to particular part of candidate's response
	draw attention to particular part of candidate's response

Annotation	Meaning
	no benefit of doubt
	reject
	correct response
	draw attention to particular part of candidate's response
	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. eg

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

Put ticks (✓) in the two correct boxes.

<input type="checkbox"/>
<input type="checkbox"/>
<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/>

This would be worth 1 mark.

Put ticks (✓) in the two correct boxes.

<input type="checkbox"/>
<input type="checkbox"/>
<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/>

This would be worth 0 marks.

Put ticks (✓) in the two correct boxes.

<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>
<input type="checkbox"/>

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, eg 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, eg 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.

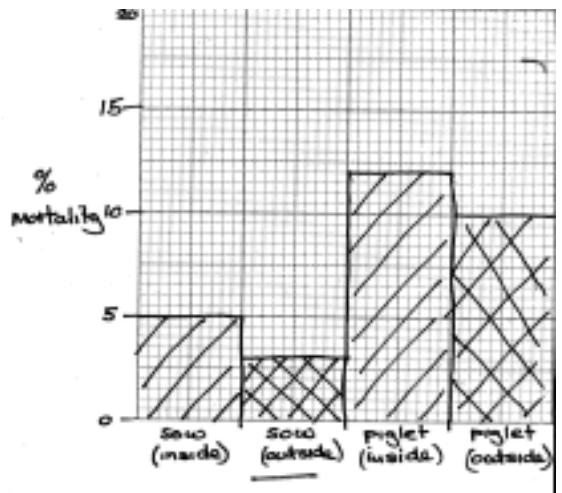
Eg If a question requires candidates to identify a city in England, then in the boxes

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	✓	x	✓	✓	✓				✓	
Paris				✓	✓		✓	✓	✓	
Southampton	✓	x		✓		✓	✓		✓	
Score:	2	2	1	1	1	1	0	0	0	NR

Question		Answer	Marks	Guidance
1		tick next to bottom LHS picture	1	
2		tick next to bottom RHS picture	1	
3		ventilated; dry; water;	3	
4		animals eat less food; less energy is used by the animals	2	
5		talk loudly so they know where you are;	1	
6	(a)	cross-breeds, F ₁ , hybrids;	1	all three needed for mark
	(b)	to improve conformation	1	
7	(a)	alert/bright eyes ; good posture; OWWTE; feathers not ruffled/in place; wattles red/firm; no abnormal droppings visible;	3	accept good weight/size reject clean unless specific eg clean feathers
	(b)	sick animals grow less well; animals may suffer; sick animals cost ie vet bills/medicines; worth less at point of sale; illegal not to treat sick animals; any 2 reduced production	2	cost must be qualified
8		bulling or equivalent; swollen vulva; discharge from vulva; restless; male attention;	2	allow squatting for hens

Question	Answer	Marks	Guidance
9	recessive;	1	
10	age; blood line ancestry; breeding details; offspring performance health record date of birth production performance	2	3 correct = 2 marks 2 correct = 1 mark
11	ovary – to produce eggs/female hormones; uterus – to house/protect/nourish embryo;	2	reject for fertilisation
12 (a)	16 litres;	1	
(b)	June – Jul;	1	
(c)	22 litres;	1	
13		3	1 mark lost per error

Question		Answer	Marks	Guidance
14		being run over mechanical – tractors; caught in machinery – moving parts; falling in grain stores/slurry lagoons – no air; damage from livestock – kicking; cut injury from tools – foot shears/scythes; herbicides/pesticides – contact/inhalation; muscle injury from heavy lifting – bales;	3	some description needed for mark allow max 1 mark for three one word answers
15		quicker growth rate; earlier maturing; more lambs per ewe; better muscle conformation; better food conversion ratio;	2	allow less wool
16	(a)	got more milk from mother; got more womb space; nutrients/colostrums	1	
	(b)	use more Lambs; use same sexed lambs; more frequent weighing; keep lambs in the same environment; fed ewes the same; weight of single – weight twins at birth	2	
Total			36	

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