

Environmental and Land-Based Science

General Certificate of Secondary Education

Unit **B495/01**: Livestock Husbandry

Mark Scheme for January 2011

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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.

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1 Abbreviations, annotations and conventions used in the detailed Mark Scheme.

/	=	alternative and acceptable answers for the same marking point
(1)	=	separates marking points
not	=	answers which are not worthy of credit
reject	=	answers which are not worthy of credit
ignore	=	statements which are irrelevant
allow	=	answers that can be accepted
()	=	words which are not essential to gain credit
<u> </u>	=	underlined words must be present in answer to score a mark
ecf	=	error carried forward
AW	=	alternative wording
ora	=	or reverse argument
OWTTE	=	or words to that effect

2 Annotations: the following annotations are available on SCORIS.

✓	=	correct response
×	=	incorrect response
bod	=	benefit of the doubt
nbod	=	benefit of the doubt not given
ECF	=	error carried forward
^	=	information omitted
I	=	ignore
R	=	reject

Question		Expected Answers	Marks	Additional Guidance
1		C	1	
2		A	1	
3		Male – penis, scrotum, sperm duct, testis Female – ovary, oviduct, uterus, vagina.	4	All correct = 4 marks, 7/6 = 3 marks, 5/4 = 2 marks, 3/2 = 1 mark, 1/0 = 0
4		C	1	
5		Dominant.	1	
6	(a)	C – F2	1	
6	(b)	D – To improve conformation	1	
6	(c)	Hybrid Vigour.	1	reject Hybrid or vigour on their own
7		colour; blue face; lack of horns; type of wool; Roman nose OWTTE.	2	allow any two descriptive terms related to the animal in the picture allow reference to fur rather than wool.
8	(a)	Dangers /cost of keeping a boar Improving stock / increasing genetic variability in the herd. Intro of disease	2	allow choose breed
8	(b)	Many more sows inseminated from a single ejaculation, less cost / danger / disease risks of moving the boar, allows boar to be used for many years after its death , any 2	2	

Question		Expected Answers	Marks	Additional Guidance
9		The sperm will quickly die at room temperature: allows it to be stored for long periods of time.	1	
10		Make sure it knows you are there, approach from the front, talk quietly, no sudden movements – any 3	3	allow gentle hand on animal
11		The cow may protect her calves, more than one animal, handling animals inside is more dangerous – any 2	2	allow cow may reject calf after handling; calves more likely to become distressed as they are not used to handling.
12	(a)	Alert, standing up, wanting to feed, clear eyes, good coat, any 3	3	
12	(b)	animals with horns are more dangerous; bullying other animals; horned animals need more space	1	
13	(a) (i)	Scotland	1	
13	(a) (ii)	Sheep	1	
13	(a) (iii)	10,220,000	1	
13	(b)	all correct 3 marks, 3 = 2 marks 2 = 1 mark	3	To within 0.5 of a line.
14		more turkeys; more frequent weighing; feed the same; same environmental conditions ora any 3.	3	allow comments referring to weighing technique in photo.
Total			36	

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