

Environmental and Land-Based Science

General Certificate of Secondary Education

Unit **B495/01**: Livestock Husbandry

Mark Scheme for June 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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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

MARK SCHEME: B495/01

Question		CBT Question Numbers	Answer	Mark	Guidance
1		1	A keep animals healthy	1	
2		2	cattle – intensive sheep – extensive pigs – extensive chicks – intensive	2	4 correct = 2 marks 3 correct = 1 mark
3		3	knees bent back straight use leg muscles	2	3 correct = 2 marks 2 correct = 1 mark
4		4	B	1	
5		5	female – egg, ovary, vagina male – penis, sperm, testis	3	1 or 2 correct = 1 mark 3 or 4 correct = 2 marks 5 or 6 correct = 3 marks
6		6	C	1	
7		7	any 3 from; alert; good posture OWTTE; bright eyes; feathers clean; pen clean; wattles good colour	3	accept – good weight; no feathers; normal droppings reject - clean

Question		CBT Question Numbers	Answer	Mark	Guidance
8		8	any 3 from; restless; bulling; standing for boar/bull/ram; swollen vulva; reddened vulva	3	accept – aggressive; smelling each other; producing to attract the bull; lifting tail
9		9	any 2 from; yield; disease resistance; hardiness; conformation; lack of horns/polled; temperament	2	accept more muscular reject appearance; more female calves
10	a	10	prevent the animal biting the student, acts as a shield	1	accept guiding the pig out
	b	11	they are distracted, more interested in food	1	must relate to food
	c	12	any 1 from; approach from front; talk quietly; make sure they have seen you	1	accept don't work alone
11	a	13	2.5 days	1	
	b	13	5 bags	1	
	c	13	water /milk	1	reject additional non essential parts of the diet

Question		CBT Question Numbers	Answer	Mark	Guidance
12	a	14	90%	1	
	b	14	contagious mastitis has declined while environmental has increased as a proportion	1	must mention both
13	a	15	74%	1	
	b	15	£30 000	1	
14		16	any 2 from; contagious – teat dipping disinfection of clusters; use of antibiotics; use disposable udder wipes; segregation / culling of infected cows	2	allow homeopathic treatments / dry wipes; more frequent milking
15		17	two populations , one of each breed; sufficient numbers of each; same sex; weigh at start; weigh regularly throughout; keep in same environmental conditions; feed the same; weigh at end; calculate average increase of mass for each breed	4	level of response marking – expect 8 valid points for full marks. 1 valid point = 0 marks 2/3 valid points = 1 mark 4/5 valid points = 2 marks 6/7 valid points = 3 marks 8 valid points = 4 marks
16		18	genotype arrangements of chromosomes/ genes/alleles phenotype physical expression of these genes OWTTE	2	reject what they get from their parents
			Total	36	

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