

Environmental and Land Science

General Certificate of Secondary Education

Unit **B494/02**: Care of Small Animals (Higher Tier)

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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Any enquiries about publications should be addressed to:

OCR Publications
PO Box 5050
Annesley
NOTTINGHAM
NG15 0DL

Telephone: 0870 770 6622
Facsimile: 01223 552610
E-mail: publications@ocr.org.uk

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

Question	CBT	Answer	Marks	Guidance										
1		F the animals cannot disturb the driver G the animals are secure	2											
2		B isolate the sick animal from the others	1											
3		<table border="0"> <tr> <td>crop</td> <td>absorbs nutrients</td> </tr> <tr> <td>gizzard</td> <td>absorbs water</td> </tr> <tr> <td>large intestine</td> <td>fermentation</td> </tr> <tr> <td>small intestine</td> <td>grinds food</td> </tr> <tr> <td></td> <td>stores food</td> </tr> </table>	crop	absorbs nutrients	gizzard	absorbs water	large intestine	fermentation	small intestine	grinds food		stores food	3	4 correct = 3marks 3 correct = 2 marks 2 correct = 1 mark
crop	absorbs nutrients													
gizzard	absorbs water													
large intestine	fermentation													
small intestine	grinds food													
	stores food													
4		between birth and lactation	1											
5		A calcium	1											
6		C oxygen level	1											
7		<p>cross breeding The mating of two different breeds of the same species</p> <p>line breeding The mating of the same breed that are not closely related</p>	1	<table border="1"> <tr><td></td><td></td></tr> <tr><td></td><td>✓</td></tr> <tr><td></td><td></td></tr> <tr><td>✓</td><td></td></tr> <tr><td></td><td></td></tr> </table>				✓			✓			
	✓													
✓														

Question		CBT	Answer	Marks	Guidance
8	a	8	bacteria	1	
	b	8	poultry product qualified / poor food hygiene / eating <u>raw undercooked</u> meat; poor personal hygiene related to faecal contamination	1	
	c	8	washing hands / good hygiene / wear gloves clean out regularly	1	reject reference to wearing face mask
9		9	antibiotics; vitamins; vaccine; hormones / cortical steroids; tetanus; pain killers / anaesthetics	1	any one
10		10	select the birds with most V's to breed from; repeat this over several generations	2	
11		11	eat too much / get fat / not have a balanced diet	1	reject unhealthy diet ignore disadvantages to owner eg wastes food
12		12	maintenance; succulent / bulk or example – lettuce; average nutrient value / balanced diet production: concentrate / or example – cereal; high nutrient value / protein	3	allow reference to difference in nutrient value in either
13		13	06.00am as eating / activity / water loss all variables at end of day	1	

Question	CBT	Answer	Marks	Guidance
14		14 enzymes / protein denature with heat / enzyme reactions slow with cold rather than break down; owtte	1	reject enzymes die
15	a	15 car firework gunshots TV thunderstorm: D A C B E CBT sequence vertical D A C B E	1	paper order
	b	16 statement wrong – no significant difference between gun shots and car back fire	1	accept correct if , noise and light linked or loud noise, firework linked to TV, quiet
	c	17 condense the y axis; delete y axis percentage figures	1	any one
16	a	18 gundog;	1	
	b	18 similar numbers of each breed should be used; similar numbers of male & female; similar numbers of young and old / ages	2	any 2 allow repeats
17		19 housing / living requirements; suitable foods; temperament / ease of handling; guidance on care eg solitary animal or level commitment needed; cost of keeping; additional costs- leads / grooming equipment / health care; eventual size of animal	3	one mark for information with explanation to max 3 marks explanations suitable for several bits of information eg ensures good health ensures responsible care ensures pet is not stressed ensures owner not harmed when handling ensures pet is not abandoned as unsuitable three unqualified bits information to max 1 mark

Question		CBT	Answer	Marks	Guidance
18		20	appropriate for animal eg mice – keep quiet / don't disturb / don't handle young; keep environment warm and clean; extra food / water for <u>mother</u>	2	any two consider other animals under three general headings eg extra food / water for mother privacy nest conditions
19		21	leads to loss of genetic variability; selecting for one feature neglects others; it concentrates chances of undesirable recessive features	3	allow max 1 mark for two correct recessive disorders reject references to inbreeding causing mutation
			Total	36	

OCR (Oxford Cambridge and RSA Examinations)
1 Hills Road
Cambridge
CB1 2EU

OCR Customer Contact Centre

14 – 19 Qualifications (General)

Telephone: 01223 553998

Facsimile: 01223 552627

Email: general.qualifications@ocr.org.uk

www.ocr.org.uk

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Head office
Telephone: 01223 552552
Facsimile: 01223 552553

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