

0172-30/31/32/33 Level 3 Technical Certificate/Diploma/Extended Diploma in Animal Management

0172-531 Level 3 Animal Management - Theory exam

February 2022 Mark Scheme

Q no.	Acceptable answer(s)	Guidance	Max mks	Ref
Q1 a)	Kidney disorder/liver disease/hepatitis/excessive bilirubin (1) Any other relevant point	Examples of human diseases/disorders are not acceptable. Do not accept generic illness/infection/tumour Accept similar wording eg Liver disorder	1	303 1.1 AO1
Q1 b)	Blood loss/anaemia/shock/poor circulation (1) Any other relevant point	Examples of human diseases/disorders are not acceptable. Do not accept generic illness/infection/tumour	1	303 1.1 AO1
Q2	1 mark for each relevant point, up to a maximum of 3 marks . For example: <ul style="list-style-type: none"> • The <u>Animal Welfare Act 2006/ Animal Health and Welfare Act (Scotland) (2006)</u> (1) • The <u>Welfare of Animals (Transport) Order/Act 2006</u> (1) • The <u>Welfare of Animals at Market Order/Act 1993</u> (1) Any other relevant point	Candidates are not required to state legislation year to be awarded mark. Do not allow multiple marks for H&S legislation Accept any other relevant point as per listed on gov.uk	3	303 1.2 AO1
Q3	An animal is exposed to a disease (1) through vaccination (1) which helps the immune system to create antibodies (1) and these antibodies fight off future infection (1)		4	303 2.1 AO2
Q4	Remove the wasp from the environment (1) to prevent further injury to the animal (1)	Do not award 'Remove sting'	4	303 4.1 AO2

	<ul style="list-style-type: none"> Take the animal to/call the vet (1) due to high risk of airway obstruction/swelling (1). Rinse the mouth with/apply vinegar to the sting site (1) which will neutralise the sting (1). Monitor vital signs (1) to identify changes/abnormalities leading to shock/anaphylaxis (1) <p>Any other relevant point</p>	<p>Do not award for general actions</p> <p>Award up to two marks for statements</p>		
Q5	<ul style="list-style-type: none"> Avoiding walking in livestock fields/moist environments/areas with high density of deer/wildlife (1) as the environmental host of lymes disease is ticks (1) Groom the dog immediately after the walk (1) to prevent ticks attaching/remove unattached ticks (1) Treat the dog with anti-tick medication to prevent ticks attaching/staying attached (1) to limit the risk of disease transmission from tick to dog (1) <p>Any other relevant point</p>	<p>Award up to two marks only for statements only</p> <p>Accept any appropriate named species instead of deer/wildlife.</p> <p>Only award for specific environments eg avoid long grass</p>		303 2.2 AO2
Q6	<p>1 mark for each relevant point, up to a maximum of 2 marks:</p> <ul style="list-style-type: none"> Egg (1) Liver/Heart/kidneys/pancreas/brains (1) Red meat (1) Oily fish (1) Whole animal carcass (1) <p>Any other relevant point</p>	<p>Do not accept meat only.</p> <p>Accept multiple versions of the same type eg beef and venison</p> <p>Do not award for vegetables eg spinach</p>	2	304 2.1 AO1
Q7	<p>1 mark each for any of the following, to a maximum of 3 marks:</p> <ul style="list-style-type: none"> Reduced fat (1) Increased fibre (1) Increase protein/ replace for high quality protein (1) Reduce daily intake of calories/energy (1) Slow-release carbohydrates (1) Reduce <u>simple carbohydrates/sugars</u> (1) <p>Any other relevant point</p>	<p>Do not accept answers in relation to anything other than nutritional, eg method, enrichment etc.</p> <p>Do not award marks for water</p> <p>Do not award for less carbs</p>	3	304 2.1 AO2
Q8	<p>Saliva lubricates the food (1) and contains enzymes (1) which begins the breakdown of food in the mouth (1) allowing for easier passage /movement through the oesophagus (1). (The sodium/Na and potassium/K in saliva acts as a buffer in the rumen (1) creating a stable pH for microbial growth (1) resulting in the absorption of volatile fatty acids (1)</p>		5	304 1.3 AO2

<p>Q9</p>	<ul style="list-style-type: none"> • Food may get stuck inside (1) preventing the rabbit from gaining all its nutrients (1) leading to malnutrition (1) • Difficult to clean (1) so causing food build up within the feeding ball (1) increasing bacteria within the environment (1) • Food will be scattered throughout the enclosure (1) which may result in food being wasted (1) leading to increased cost for the owner (1) • Food will be scattered throughout the enclosure (1) which may attract vermin (1) introducing disease into the enclosure/exposing animal to disease <p>Any other relevant point</p>	<p>Award up to two marks for statements only</p>	<p>6</p>	<p>304 4.1 AO2</p>
<p>Q10</p>	<p>1 mark each for any of the following, to a maximum of 2 marks:</p> <ul style="list-style-type: none"> • Urine spraying (1) • Middening/defecating (1) • Rubbing (scent) (1) • Scratching (environment) (1) • Pacing (1) <p>Any other relevant point</p>	<p>Do not award multiple marks for an overarching term and example eg scent marking (1) scent rubbing (1)</p> <p>Do not accept vocalising</p>	<p>2</p>	<p>305 1.1 AO1</p>
<p>Q11</p>	<p>The animal will try a behaviour to solve a problem (1) if it does not work it will alter its behaviour until it succeeds (1) and will repeat/have achieved the successful behaviour (1).</p>	<p>Marks to be awarded for descriptions relating to;</p> <ul style="list-style-type: none"> • Trialling behaviour • Adjusting behaviour • Repeating/Successful behaviour <p>Award marks if candidates use a species-specific example</p>	<p>3</p>	<p>305 3.2 AO1</p>
<p>Q12</p>	<p>Visual communication/appropriate body language/facial expression (1) to demonstrate submission/appeasement/dominance (1) Identifying chemicals/pheromones of the dominant individual (1) to avoid entering their territory (1)</p> <p>Vocalisation (1) to demonstrate submission/vulnerability/appeasement (1)</p> <p>Tactile (1) allogrooming/bonding/enforcing hierarchy/social structure (1)</p> <p>Any other relevant point</p> <p>Example species specific answer:</p>	<p>A maximum of two marks to be awarded per method</p> <p>Do not award marks if there is no reference to a specific species.</p> <p>Do not award marks if the named species does not carry out the described behaviour.</p>	<p>6</p>	<p>305 3.2 AO2</p>

	<p>A submissive dog uses a low body posture/a dominant dog uses an upright body posture (1) to demonstrate it is not a threat/ to show others it is strong and not worth challenging (1)</p> <p>A submissive dog will smell for a dominant dog's territory/a dominant dog will mark its territory (1) to avoid entering a dominant dog's domain/as a warning to others to stay away (1).</p> <p>A submissive dog will produce a high-pitched noise/a dominant dog will growl (1) to demonstrate fear/submission to others/to warn others not to approach it (1).</p>			
Q13	<p>Food provided by two parents/parents able to better protect offspring (1) resulting in more chance of survival of/healthier/stronger offspring (1) leading to more chance of further offspring breeding (1) which will increase species population (1).</p> <p>Food provided by two parents (1) quicker growth/healthier offspring (1)</p> <p>Able to better protect offspring (1) higher chance of survival of offspring (1)</p> <p>Less work/risk for the parents (1) therefore more likely to survive until young are independent/Offspring better provided for (1)</p> <p>Any other relevant point</p>	<p>Award a maximum of two marks for statements</p> <p>Do not award marks for repeated explanations</p>	4	305 4.3, 3.1 AO2
Q14	<p>For no awardable content, award 0 marks.</p> <p>Band 1: 1-4 marks A limited range of considerations with a mostly descriptive answer showing clear gaps in knowledge and limited understanding. Candidate attempts to use technical terminology infrequently but mostly inaccurately.</p> <p>To access the higher marks in the band, the candidate demonstrates a wider range of considerations with superficial explanations, which may not all be valid. An attempt to provide some examples may be evident but may not be relevant.</p> <p>Band 2: 5-8 marks Candidate considered a range of aspects of the topic with a clear discussion showing knowledge and understanding with some gaps. Technical terminology is used frequently with some inaccuracies.</p>	<p>Indicative content:</p> <ul style="list-style-type: none"> • Signs of health in animals • Body condition score • Social bonds • Life stages • Behaviour • Routine health checks and record keeping • Legislation that relates to animal health and welfare • Health plans • Isolation/quarantine procedure • Feeding plans and procedures – nutritional requirements 	12	AO4 303 1.1, 1.2, 2.1, 2.3, 4.1 304 3.1, 3.2, 4.1, 4.2 305 1.1, 1.2, 1.3, 2.1, 3.3, 4.1, 4.2

	<p>To access the higher marks in the band, discussion is supported with relevant examples with developed and valid links to the topic, including some justifications.</p> <p>Band 3: 9-12 marks Candidate considered a wide range of aspects of the topic with a comprehensive discussion showing thorough knowledge and understanding. Technical terminology is used correctly and appropriately throughout with minimal inaccuracies.</p> <p>To access the higher marks in the band, the discussion is supported using a broad range of highly relevant examples with clear and detailed justifications</p>	<ul style="list-style-type: none"> • Monitoring and recording behaviour • Factors influencing behaviour • Animal welfare • Previous experiences/lack of experiences • Previous medical records 		
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