

**0172-30/31/32/33 Level 3 Technical Certificate/Diploma/Extended Diploma in Animal Management**  
0172-531 Level 3 Animal Management - Theory exam

March 2022 Contingency paper Mark Scheme

Q no.	Acceptable answer(s)	Guidance	Max mks	Ref
Q1	<ul style="list-style-type: none"> <li>• Ticks can transmit/transfer bacteria (1) that causes disease/Lymes disease (1)</li> <li>• Ticks bite the host to feed on blood (1) causing wounds (1)</li> </ul>		2	303 2.1 AO2
Q2	<p><b>1 mark each for any of the following, to a maximum of 3 marks:</b></p> <ul style="list-style-type: none"> <li>• Prevents/make it illegal for unqualified people to carry out medical procedures on animals (1)</li> <li>• Ensures procedures are carried out under anaesthetic/appropriate conditions (1)</li> <li>• Minor procedures can be carried out on farm animals by an unqualified person (castration/disbudding) (1)</li> <li>• Stipulates those procedures that must be carried out by a qualified veterinary surgeon (1)</li> </ul> <p>Accept any other relevant point</p>		3	303 1.2 AO1
Q3	<ul style="list-style-type: none"> <li>• Increase fibre (1) (allowing more water to remain in the stool) to ease passing of faeces/maintain bowel health (1)</li> <li>• Feed easily/highly digestible foods (1) to promote regular bowel movements (1)</li> <li>• Increase water intake (1) to promote hydration of the faecal matter (1)</li> </ul> <p>Accept any other relevant point</p>	<p>Award a maximum of three marks for statements.</p> <p>Do not award for 'regular exercise' as not nutritional</p>	6	303 2.4 AO2
Q4	<ul style="list-style-type: none"> <li>• Quarantine (1) to ensure non-symptomatic animals are not carrying the disease (1)</li> <li>• Isolation of sick/ill animals (1) to contain the disease until the animal is not contagious/shedding disease (1)</li> <li>• Use of barrier nursing techniques (1) to reduce cross-contamination (1).</li> </ul>	<p>Award a maximum of two marks for statements</p> <p>Do not award marks or repetitive answers.</p>	4	303 2.2 AO2

	<ul style="list-style-type: none"> <li>• Use of personal protective equipment/PPE (1) to reduce transfer of pathogens on clothing (1)</li> <li>• Give vaccinations to non-infected animals (1) to prevent shedding of disease (1)</li> <li>• Border controls/control the movement of dogs from country to country (using passports) (1) to reduce the likelihood of infections into other countries (1)</li> </ul> <p>Accept any other relevant point</p>			
<b>Q5</b>	<ul style="list-style-type: none"> <li>• Remove the animal away from the potential source (1)</li> <li>• Take the animal to/call the Vet (1)</li> <li>• Encourage the animal to drink (1)</li> <li>• Collect a sample of the harmful substance for analysis/diagnosis (1)</li> <li>• Monitor vital signs (1)</li> </ul>	<p>Do not award for 'Make the animal sick/induce vomiting'</p> <p>Do not award for general actions</p>	2	<b>303 4.1 AO1</b>
<b>Q6 a)</b>	<ul style="list-style-type: none"> <li>• Allows food to travel from the mouth to the rumen (reticulum) (1)</li> <li>• Regurgitation for further chewing (chewing the cud) (1)</li> </ul> <p>Accept any other relevant point</p>		1	304 1.3 AO1
<b>Q6 b)</b>	<ul style="list-style-type: none"> <li>• Provides an environment for the digestion of fibre/cellulose/plant material for bacterial fermentation (1)</li> </ul> <p>Accept any other relevant point</p>		1	304 1.3 AO1
<b>Q6 c)</b>	<ul style="list-style-type: none"> <li>• Removes excess water from the food (1)</li> <li>• Reduces the size of the food particles for further digestion (1)</li> </ul> <p>Accept any other relevant point</p>		1	304 1.3 AO1
<b>Q6 d)</b>	<ul style="list-style-type: none"> <li>• Produces acids and enzymes for digestion (1)</li> <li>• Digests bacteria as a source of protein (1)</li> </ul> <p>Accept any other relevant point</p>		1	304 1.3 AO1
<b>Q6 e)</b>	<ul style="list-style-type: none"> <li>• Grips/directs grass into the mouth during grazing (1)</li> <li>• Manipulates food in the mouth during eating/swallowing/regurgitation (1)</li> </ul> <p>Accept any other relevant point</p>		1	304 1.3 AO1
<b>Q7</b>	<p>(Amino acids) join together to make protein/used for protein synthesis (1) to support tissue/muscle growth/maintenance/repair in the body (1) which means they can also be broken down to provide energy (1), additionally some amino acids are used to produce neurotransmitters (1) and hormones/enzymes/antioxidants (1)</p> <p>Accept any other relevant point</p>		5	304 1.1 AO2

<b>Q8</b>	<ul style="list-style-type: none"> <li>• Poor nutrient value (1) can lead to weight loss/ill health/ lack of energy (1)</li> <li>• Too much protein (1) can put additional strain on the liver and kidney/cause hyperactivity (1)</li> <li>• Excess carbohydrates/fat (1) can cause obesity (1)</li> <li>• Dusty or mouldy feed (1) can cause respiratory disorders (1)</li> <li>• Contaminated foods can cause toxicity (1) leading to illness or death (1)</li> </ul> <p>Accept any other relevant point</p>		6	304 3.1 AO2
<b>Q9</b>	<p><b>1 mark each for any of the following, to a maximum of 3 marks:</b></p> <ul style="list-style-type: none"> <li>• Guarding the house/kennel (1)</li> <li>• Guarding the owner (1)</li> <li>• Possessive over toys (1)</li> <li>• Marking territory (1)</li> </ul> <p>Accept any other relevant point</p>		3	305 1.1 AO1
<b>Q10</b>	<ul style="list-style-type: none"> <li>• Wild birds fly between feeding sites (1) while food is served for captive birds (1)</li> <li>• Wild birds forage 4-6 hours per day (1) while captive birds are fed pelleted diet providing all the calorific needs in less time (1)</li> <li>• Wild birds feed varied plant species (leaves/seeds/nuts) (1) while captive birds become accustomed to seeds/may not be open to trying new foods (1)</li> <li>• Wild birds mate for life (1) while captive birds' mate is selected/can be changed (1)</li> </ul> <p>Accept any other relevant point</p>	<p>Award a maximum of two marks for statements without a comparison.</p> <p>Do not award marks for generic statements.</p>	4	305 1.3 AO2
<b>Q11</b>	<p>An automatic response carried out when an animal is exposed to a particular stimulus (1) such as a dog shaking after it gets wet/ a sea turtle seeking the ocean after hatching (1)</p>		2	305 3.2
<b>Q12</b>	<ul style="list-style-type: none"> <li>• Hierarchy (1) with dominant individuals within the group/social structure/roles within the group dynamics (1)</li> <li>• Dominance (1) ensuring survival of the fittest/mate selection (1)</li> <li>• Maintaining communication (1) danger warning signs/interaction between parent and offspring/ location of preferred feeding sites/ hunting (1)</li> <li>• Social bonding (1) with grooming/play/hunting and feeding (1)</li> </ul> <p>Accept any other relevant point</p>	<p>Award a maximum of two marks for statements.</p>	4	305 4.2 AO2
<b>Q13</b>	<p><b>1 mark each for any of the following, to a maximum of 2 marks:</b></p> <ul style="list-style-type: none"> <li>• Ears back (1)</li> <li>• Bare teeth (1)</li> </ul>		2	305 4.1 AO1

	<ul style="list-style-type: none"> <li>• Raised hackles (1)</li> </ul> <p>Accept any other relevant point</p>			
<b>Q14</b>	<p><b>Band 1: 1-4 marks</b> 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><b>Band 2: 5-8 marks</b> 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>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><b>Band 3: 9-12 marks</b> 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>	<p><b>Indicative content:</b></p> <ul style="list-style-type: none"> <li>• Five animal needs (Animal Welfare Act 2006)</li> <li>• Health and behavioural considerations</li> <li>• Dietary requirements</li> <li>• Housing</li> <li>• Grouping of animals</li> <li>• Enrichment</li> </ul>	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., 3.3, 4.1, 4.2

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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>Accept 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
	<p><b>For no awardable content, award 0 marks.</b></p> <p><b>Band 1: 1-4 marks</b> 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><b>Band 2: 5-8 marks</b> 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>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><b>Band 3: 9-12 marks</b> 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>Indicative content:</p> <ul style="list-style-type: none"> <li>• Signs of health in animals</li> <li>• Body condition score</li> <li>• Social bonds</li> <li>• Life stages</li> <li>• Behaviour</li> <li>• Routine health checks and record keeping</li> <li>• Legislation that relates to animal health and welfare</li> <li>• Health plans</li> <li>• Isolation/quarantine procedure</li> <li>• Feeding plans and procedures – nutritional requirements</li> <li>• Monitoring and recording behaviour</li> <li>• Factors influencing behaviour</li> <li>• Animal welfare</li> <li>• Previous experiences/la</li> </ul>	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, the discussion is supported using a broad range of highly relevant examples with clear and detailed justifications.</p>	<p>ck of experiences</p> <ul style="list-style-type: none"><li>• Previous medical records</li></ul>		
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