

**0172-33 Level 3 Technical Extended Diploma in Animal Management**  
 0172-043/543 Level 3 Animal Management - Theory exam

March 2022 Mark Scheme

Q no.	Acceptable answer(s)	Guidance	Max mks	Ref
Q1	<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>• Climate change (1)</li> <li>• Deforestation (1)</li> <li>• Habitat destruction (1)</li> <li>• Migration (1)</li> <li>• Emerging disease (1)</li> <li>• Pollution (1)</li> <li>• Population shifts (1)</li> <li>• Trends (1)</li> <li>• Speciation (1)</li> <li>• Scales (1)</li> <li>• Individuals (1)</li> <li>• Species (1)</li> <li>• Communities (1)</li> <li>• Ecological niches (1)</li> <li>• Demes (1)</li> <li>• Weather (1)</li> <li>• Famine (1)</li> </ul> <p><b>Any other relevant point</b></p>	<p>Do not accept generic factors and then examples of (eg weather and snow).</p> <p>Award one mark only if factor and example that are similar are provided eg influence of man and climate change</p>	2	308 1.1 AO1
Q2 a)	Breakdown of a breeding pair/family group (1)			308 1.2 AO1
Q2 b)	Diseases that have recently appeared (1)			308 1.3 AO1
Q3	<ul style="list-style-type: none"> <li>• Manage nature reserves (1) by implementing evidence-based practice (1) to <u>provide protected/suitable</u> habitat for wildlife (1) encouraging breeding (1)</li> <li>• Support threatened species to recover (1) introduce breeding programs (1) resulting in the reintroduction of species (1) which will increase population (1)</li> <li>• Work internationally to protect habitats and species (1) allowing for working with other organisations (1)</li> </ul>	<p>Allow marks for explanation of conservation strategies implemented by the <u>RSPB</u></p> <p>Do not accept explanations</p>		308 2.1 AO2

	<p>through research/fundraising (1) to share knowledge/skills (1).</p> <ul style="list-style-type: none"> <li>Protect birds (1) through tagging/tracking (1) and working with other countries (1) to monitor <u>patterns/trends</u> (1).</li> <li>Educating children/public (1) by providing programs/resources (1) to encourage change in human behaviour towards wildlife/environment. (1) through the implementation of conservation methods (1)</li> </ul> <p><b>Any other relevant point</b> as per <a href="http://www.rspb.org.uk">www.rspb.org.uk</a></p>	regarding rehabilitation of birds.		
<b>Q4</b>	<ul style="list-style-type: none"> <li>Imbalance of individuals (1) resulting in increased competition/fighting for females/lack of males to breed with (1) causing a decrease in population (1).</li> <li>Reduced population of emigrated prey species (1) causes changes in predator/prey dynamics (1) resulting in population fluctuations of other species (1).</li> <li>Smaller population left behind (1) young/old members of a family group become more vulnerable (1) resulting in increased predation (1).</li> <li>New species could move into habitat (1) altering the dynamics (1) and potentially wiping out other species (1)</li> </ul> <p><b>Any other relevant point</b></p>			308 3.1 AO2
<b>Q5</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>Telephone call/answerphone message (1)</li> <li>Face to face (1)</li> <li>Text message (1)</li> <li>Private social media messaging (1)</li> <li>Letter/postcard/leaflet (1)</li> <li>Email (1)</li> </ul> <p><b>Any other relevant point</b></p>	Do not award for repetitive answers, eg one mark only should be awarded for telephone call and answerphone message	2	315 2.2 AO1
<b>Q6 a)</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>Antibiotics (1)</li> <li>IV fluids (1)</li> <li>Cough medicine (1)</li> <li>Anti-inflammatory Drugs (1)</li> <li>Homeopathic (1)</li> </ul> <p><b>Any other relevant point</b></p>	<p>Take answer within context eg do not award for 'preventative'</p> <p>Do not accept 'Pain relief' or names of treatments eg Metacam</p>		315 1.4 AO1
<b>Q6 b)</b>	<p><b>1 mark each for any of the following, to a maximum of 3 marks:</b></p>			315 1.4

	<ul style="list-style-type: none"> <li>• Weight/appetite loss/anorexia (1)</li> <li>• Dehydration (1)</li> <li>• Spread of disease (1)</li> <li>• Pneumonia (1)</li> <li>• Lower immunity/susceptibility to disease (1)</li> <li>• Death (1)</li> </ul> <p><b>Any other relevant point</b></p>			AO2
<b>Q7</b>	<ul style="list-style-type: none"> <li>• Regular/12-hour <u>insulin</u> injections/shots need to be given to the dog (1) managing blood sugar levels/preventing hyperglycaemia (1).</li> <li>• Increased fibre/complex carbohydrates in diet (1) slows down the absorption of glucose (1)</li> <li>• Increased protein in the diet (1) provides energy to the animal without increasing blood sugar/glucose levels (1)</li> <li>• Consistent/Regular exercise (1) prevents fluctuations in blood sugar/glucose levels (1)</li> </ul> <p><b>Any other relevant point</b></p>	<p>A maximum of two marks for statements.</p> <p>Injections must be linked to insulin.</p> <p>Do not accept insulin and exercise as standalone statements.</p> <p>Do not accept generalised statements relating to diet</p>		315 1.2 AO2
<b>Q8</b>	<p>To meet the standards of The Animal Welfare (Licensing of Activities Involving Animals) (England) Regulations 2018/Animal Welfare Act 2006/licensing requirements/Boarding Establishments Act 1963 (1) which reduces the risk of transferring disease (1), protecting the cats within the cattery (1) and maintaining the reputation of the business (1).</p>	<p>Year of legislation not required to award marks</p>		327 2.1 AO2
<b>Q9</b>	<ul style="list-style-type: none"> <li>• Decrease in exercise/physical stimulation (1) resulting in loss of muscle mass (1) causing/leading to future disease/disorder (1).</li> <li>• Change in eating/drinking (1) resulting in weight gain/weight loss (1) causing/leading to future disease/disorder (1).</li> <li>• Lack of stimulation (1) resulting in self-inflicted trauma (1) leading to a need for veterinary attention (1)</li> <li>• Limited space/confinement (1) resulting in stereotypical behaviours (1) causing/leading to future disease/disorder (1).</li> </ul> <p><b>Any other relevant point</b></p>	<p>Do not allocate marks for repetition or for multiple explanations of the same point.</p>		327 3.2 AO2

<p><b>Q10</b></p>	<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>• Accessibility (1)</li> <li>• Parking (1)</li> <li>• Waiting area (1)</li> </ul> <p><b>Any other relevant point</b></p>	<p>Answers must link to client needs.</p>		<p>327 1.1, 1.2 AO1</p>
<p><b>Q11</b></p>	<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>• German Shepherd/Alsatian (1)</li> <li>• Labrador (Retriever) (1)</li> <li>• Golden Retriever (1)</li> <li>• Springer Spaniel (1)</li> <li>• Cocker Spaniel (1)</li> <li>• Border Collie (1)</li> <li>• Border Terrier (1)</li> <li>• Jack Russell Terrier (1)</li> </ul> <p><b>Any other relevant point</b></p>	<p>Do not accept abbreviation.</p> <p>Do not accept cross breeds.</p> <p>Accept any dog breed that 'traditionally' worked</p>		<p>327 3.3 AO1</p>
<p><b>Q12</b></p>	<ul style="list-style-type: none"> <li>• Completing staff reviews/appraisals/disciplinarys (1) to ensure staff performance is monitored/maintained/(1)</li> <li>• Dealing with customer complaints (1) to ensure customer satisfaction/reduce negative impact (1).</li> <li>• Maintaining standards of customer care (1) by monitoring/reviewing practices (1)</li> <li>• Managing financial/HR records (1) to adhere to business budgets (1)</li> <li>• Provide staff training (1) to ensure staff meet business standards (1)</li> </ul> <p>Any other relevant point.</p>	<p>Award up to three marks for statements</p> <p>Do not award for H&amp;S as all legally responsible</p> <p>Do not award marks for stock taking/levels</p>		<p>364 2.3 AO2</p>
<p><b>Q13</b></p>	<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>• Wages/Salaries (1)</li> <li>• Income tax (1)</li> <li>• National insurance contributions (1)</li> <li>• Corporation tax (1)</li> <li>• Balance sheets (1)</li> <li>• Depreciation (1)</li> <li>• Cash analysis (1)</li> <li>• Petty cash (1)</li> <li>• Cash flow (1)</li> <li>• Budgets (1)</li> <li>• Invoices (1)</li> <li>• Bills (1)</li> <li>• Credit control (1)</li> <li>• Loans (1)</li> <li>• Sales records (1)</li> <li>• Delivery notes/receipts (1)</li> <li>• Bank statements (1)</li> </ul>	<p>Do not accept generic records and then examples eg Bills (1) and amount of food bought (1)</p>		<p>364 4.1 AO1</p>

	<ul style="list-style-type: none"> <li>• Ages (1)</li> <li>• Income tax (1)</li> </ul> <p><b>Any other relevant point</b></p>			
<b>Q14</b>	<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>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>• Husbandry</li> <li>• Veterinary care</li> <li>• Infectious diseases</li> <li>• Accommodation requirements – location from main accommodation, individual requirements</li> <li>• Principles of design, layout</li> <li>• Records – physical, financial, animal</li> <li>• Animal welfare including 5 welfare needs</li> <li>• Health and safety – use of PPE</li> <li>• Legislation - Animal Welfare Act 2006, Health and Safety at Work Act 1974.</li> <li>• Staff training</li> <li>• Communication</li> <li>• Animal behaviour – reducing stress, stereotypes</li> <li>• Business suppliers</li> <li>• Resources</li> </ul>		<p><b>AO4</b></p> <p>315 1.4</p> <p>327 1.1, 1.2, 2.1, 3.2, 3.4</p> <p>364 1.2, 2.1, 2.2, 4.1, 4.2</p>