

0172-32 Level 3 Technical Extended Diploma in Animal Management 0172-035/535 Level 3 Animal Management (Zoos and Wildlife) - Theory exam

March 2022 Mark Scheme

Q no.	Acceptable answer(s)	Guidance	Max mks	Ref
Q1 a)	Egg laying animal		1	310 2.3 AO1
Q1 b)	Accept any species of oviparous reptile	Non species-specific examples can be awarded for if all of the species are oviparous	1	310 2.3 AO1
Q2	Metabolic bone disease (1) occurs due to lack of UVB lighting (1) Physiological stress/abnormal behaviours (1) will occur due to lack of day and night cycle/disrupted circadian rhythm (1) Any other relevant point		4	310 2.1 AO2
Q3	 Woodchip/bark/substrate (1) to enable natural foraging/to provide suitable flooring for walking (1) Nest boxes/hides/shelter/foliage on the ground (1) to ensure privacy/security (1) Needs sufficient ground/floor space for exercise (1) to maintain health (1) Any other relevant point	Do not award marks for repeated answers. Maximum of two marks for statements. Answers must be specific to flightless birds, not birds in general. Only award marks for suitable features rather than unsuitable features	4	310 1.3 AO2
Q4	 Quarantine of newly arrived animals (1) to ensure the animal is not carrying any transmissible diseases before introduction (1) Isolation of sick/ill animals (1) to contain the disease until the animal is not contagious/shedding disease (1) Use of barrier nursing techniques (1) to reduce pathogens spreading/transferring between enclosures (1). Hygiene measures/hand washing (1) to reduce fomites (1) Personal protective equipment/PPE (1) to reduce transfer of pathogens on clothing/from animal to carer (1) 	Do not award marks for repeated answers Do not award for 'Prevent the spread of disease' without further context	4	310 2.2 AO2

	Maintain health of animals/Give vaccinations (1) to prevent shedding of disease (1) Any other relevant point			
Q5 a)	Mimics/copies/looks/sounds like an object /dangerous/unpalatable animal (1) to avoid predation/being eaten (1)		2	308 3.1 AO2
	Any other relevant point			
Q5 b)	Any suitable species (eg milk snake)	Non species specific examples can be awarded for if all of the species show mimicry	2	308 3.1 AO1
		Accept camouflage in a suitable context (eg a stick insect looks a stick)		
Q6	1 mark each for any of the following, to a maximum of 3 marks: • Seasonality (1) • Migration (1) • Emerging diseases (1) • Climate change (1) • Habitat destruction (1) Any other relevant point	Do not award marks for repetitive answers	3	308 1.3 AO1
Q7	 (Appendix I) contains species threatened with extinction (1) where trade is only permitted in exceptional circumstances (1) (Appendix II) contains species not necessarily threatened with extinction (1) where trade needs to be controlled (1) (Appendix III) are species that are protected in at least one country (1) where that country has asked for assistance in controlling trade (1) Any other relevant point		6	308 2.2 AO2
Q8	1 mark each for any of the following, to a maximum of 2 marks: • Enclosure signage (1) • Interactive signage (1) • Presenter/keeper talks (1) • Public feeds (1) • Live animal demonstrations/shows (1) Any other relevant point		2	316 1.2 AO1

Q9	 To educate visitors on an animal's natural environment/conservation (1) To educate visitors on an animal's natural behaviour (1) To enable visitors to feel they are inside the animal's habitat (1) To enable visitors to interact with the species/environment (1) Any other relevant point		2	316 4.3 AO1
Q10	 Report the escape to a senior member of staff (1) to state which animal has escaped (1) Control/evacuation of visitors (1) to ensure visitor safety/manage areas effectively (1) Alert emergency services/police (1) in case animal escapes the zoo perimeter (1) Alert vet/gun team (1) to ensure the provision of firearms/darting equipment to tranquillise/kill escaped animal (1) Maintain visual contact with the animal at all times (1) to ensure location of the animal is known (1) Ensure accommodation is secure (1) to prevent further escape (1) Recapture the animal (1) to ensure visitor/animal safety (1) 	Maximum 4 marks if only statements provided. Do not award marks for "following zoo protocols". Award for actions that are not immediately undertaken eg risk assessments Do not award marks for repetitive answers	8	316 3.3 AO2
Q11	 To maintain security of enclosures (1) to prevent animals escape/unauthorised entry (1) To ensure safety of animals (1) preventing injury from unsafe fixtures/fittings (1) To monitor the use of the enclosure by the animals (1) to be able to make changes to ensure high standards of welfare (1) To make appropriate amendments (to the enclosure) (1) in response to improved knowledge of animal husbandry/in line with AWA 2006 (1) Any other relevant point 	Maximum of 3 marks for statements with no explanations given. Do not award for repetitive answers	6	316 4.3 AO2
Q12	Determines which animals should be kept in the zoo (1) dictated by the animal size/husbandry/space availability (1) and their education/conservation/research/entertainment value (1). Any other relevant point	Maximum 3 marks	3	316 1.2 AO2
Q13	For no awardable content, award 0 marks. 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.	Indicative content Welfare: • Provision of five animal needs • Husbandry and care	12	AO4 316 1.2 3.1 4.1 310

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.	 Health and safety – 1 students, 2 handlers and animals,
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.	zoonosis Animal handling techniques Legislation - Animal Welfare Act
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. Band 3: 9-12 marks	2006, The Zoo Licensing Act 1981 • Stress/injury to animals -
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.	repeated/frequent handling Education: • Engagement – learning through
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.	interaction Hands on experience — inspires new generation Human/animal connection
	 Opportunities to link to wider conservation Promotes classroom discussions Links to curriculum