

Mark Scheme

Sample Assessment Material

Principal Learning

Environmental and Land based Studies (ES205/01)

General guidance on marking

Examiners should look for qualities to reward rather than faults to penalize. This does NOT mean giving credit for incorrect or inadequate answers, but it does mean allowing learners to be rewarded for answers showing correct application of principles and knowledge, and for critical and imaginative thinking. Examiners should therefore read carefully and consider every response; even if it is not what is expected it may be worthy of credit. The Principal Examiner or Team Leader should be consulted as necessary.

Question Number	Correct Answer	Mark
1(a)	temperament, size or any other suitable answer	(1)

Question Number	Correct Answer	Mark
1(b)	1 mark for naming appropriate animal 1 mark each for two from: exercise; stress relief; companionship	(3)

Question Number	Correct Answer	Mark
1(c)	1 mark for naming appropriate bird and 1 mark each for three from: longevity; size; colour; easy to keep; train to talk	(4)

Question Number	Correct Answer	Mark
1(d)	a plant growing in an unwanted place	(1)

Question Number	Correct Answer	Mark
1(e)	1 mark for naming appropriate plant plus 1 mark each for four from: aesthetic; habitats for wildlife; shelter; biodiversity or other suitable answers	(5)

Question Number	Correct Answer	Mark
2(a)	one from : <ul style="list-style-type: none"> • prolonged growing season (1), more crops per year (1) • less prone to diseases (1), easier health management (1) • increased income/income spread over the year (1) 	(2)

Question Number	Correct Answer	Mark
2(b)	One reason and explanation from: keeping the crop alive, avoiding extremes of temperature (1) creating optimum growth temperature (1) an appropriate example: installation of an automated ventilation system (1) linked to pre-set thermostatic control (1)	(4)

Question Number	Correct Answer	Mark
2(c)	rainfall stopped from reaching soil/lettuces (1), requirement for irrigation system (1), increased uptake of water by the lettuce due to increased temperatures(1) any other acceptable answer	(3)

Question Number	Correct Answer	Mark
3(a)	Any two from: - Line transect is the commonly accepted method to collect such data - it is simple and cheap to use or any other suitable answer	(2)

Question Number	Correct Answer	Mark
3(b)	Must be positioned randomly (1)/or better planned in advance/plan on paper first (1) Number of bluebells found per quadrat used to calculate the overall density (1)	(3)

Question Number	Correct Answer	Mark
3(c)(i)	Assessment of two arguments for from: greater visitor numbers; better access for disabled; easier access for parents with children Assessment of two arguments against from: increased traffic (1; more litter; increased noise;	(4)

Question Number	Correct Answer	Mark
3(c)(ii)	Assessment of two arguments for from: light able to reach woodland floor; increased flora and fauna biodiversity; coppicing is rotational allowing trees to be at different stages of growth; - increased life of the coppice tree other suitable answers Assessment of two arguments against from: can be time consuming; is labour intensive; can limit tree establishment; difficult to make economically viable	(4)

Question Number	Correct Answer	Mark
4(a)	Levels correct apple (at bottom) - sap feeders and caterpillars - predatory insects - tits - sparrow hawk (2). Lines join Oak to all level 2 (1) level 3 to all level 2 (1) level 4 to all levels 2 and 3 (1) Sparrow hawk to tits (1) to a maximum of 5 marks.	(4)

Question Number	Correct Answer	Mark
4(b)	Any suitable chain starting with apple to four levels (2). Suitable pyramid from primary producer to tertiary consumer (3).	(4)

Question Number	Correct Answer	
5	Issues such as: <ul style="list-style-type: none"> • legal/comfortable transport to abattoir • hygienic conditions • comfort of animals • legal methods of despatch • methods of despatch that minimise stress/pain • minimisation of stress in animals 	
Level	Mark	
	0	No relevant evidence provided
1	1-2	Brief discussion of issues, likely to be uncritical
2	3-4	Detailed discussion of issues drawing on different viewpoints
3	5-6	Thorough relevant discussion of issues drawing on an appropriate balance of different opposing viewpoints