

2011 Managing Environmental Resources Intermediate 1 Finalised Marking Instructions

© Scottish Qualifications Authority 2011

The information in this publication may be reproduced to support SQA qualifications only on a non-commercial basis. If it is to be used for any other purposes written permission must be obtained from SQA's NQ Delivery: Exam Operations Team.

Where the publication includes materials from sources other than SQA (secondary copyright), this material should only be reproduced for the purposes of examination or assessment. If it needs to be reproduced for any other purpose it is the centre's responsibility to obtain the necessary copyright clearance. SQA's NQ Delivery: Exam Operations Team may be able to direct you to the secondary sources.

These Marking Instructions have been prepared by Examination Teams for use by SQA Appointed Markers when marking External Course Assessments. This publication must not be reproduced for commercial or trade purposes.

2011 Managing Environmental Resources: Intermediate 1

Marking Scheme

Question 1

_,				
(a)	(i)	Natural – bay or beach. Semi-natural – park or hedge. Built – play area, swimming pool, caravan building, road.	ı sites, shop – any	
		bullding, road.	One or two – 1 mark All three – 2 marks	(2)
	(ii)	Receptionist, shop assistant, life guard, cleaner, g	roundkeeper. Any two	(1)
	(iii)	Beach/bay/leisure facilities/pool/shower block.	Any two	(2)
	(iv)	Glass, cans, paper, plastic.	Any two	(1)
	(v)	More noise/traffic/litter/road surface deteriorates.	Any one	(1)
	(vi)	Provides food/shelter/habitat.	Any one	(1)
(b)	(i)	Food wrappers.		(1)
	(ii)	Named item which chokes or poisons seabird or b pulls.	eaks caught in ring	(1)
	(iii)	Provide more bins/fines or plant thorn hedges or e home or employ litter pickers.	ncourage to take	(1)
Ques	stion 2			
(a)	(i)	Crane fly.		(1)
	(ii)	Sun.		(1)
	(iii)	Arrow.		(1)
	(iv)	Heather → Ptarmigan. Blaeberry → Red grouse.	1 for organisms 1 for arrow	(2)
	(v)	Decomposer or bacteria or fungi.		(1)
	(vi)	Decrease because less food.		(1)
(b)	(i)	Site of special scientific interest.		(1)
	(ii)	Primula scotica or Scottish primrose.		(1)
(c)	Community.			(1)
(d)	(i)	Global warming/climate change/greenhouse effect	t.	(1)
	(ii)	Seen by predators/not camouflaged.		(1)

Question 3

(a)	(i)	4.	(1)
	(ii)	A. Firm/flat with not many hills or short Any one	(1)
(b)	(i)	Must not disturb the birds.	(1)
	(ii)	Carnivore.	(1)
	(iii)	Wildlife and Countryside Act (1981).	(1)
(c)	(i)	Ranger service/Community Wildlife Trust or Local alternative.	(1)
	(ii)	Health and safety/to allow the foresters to do their job/access responsibility.	(1)
	(iii) Advantage: No fossil fuels used up/horse is sustainable/horses do less damage to the soil/small scale is best/horse is less expensive to buy/horse is renewable		(1)
		Disadvantage: Slower work rate/more men required/horse needs to be looked after when not working	(1)
	(iv)	Furniture/housing/paper	(1)
Ques	tion 4		
(a)	(i)	Bio-diesel.	(1)
	(ii)	Less acid rain −1, so less habitat destruction −1.	(2)
(b)	Corre	ect sectors -1, labelled -1. Must meet in centre.	
(c)	(i)	Choice to be backed up by reason. A – because cheaper B – because more environmentally friendly	(1)
	(ii)	£60.	(1)
(d)	(i)	Decreases and increases OR increases and decreases.	(1)
	(ii)	Earth Summit/Copenhagen/Kyoto Protocol/Agenda 21.	(1)
	(iii)	1 UV radiation2 increased incidence of skin cancer	(1) (1)

Question 5

(a)	(i)	Agriculture/sheep or dairy farming, peat harvesting/cereal growing/gardening.	(1)
	(ii)	Fishing.	(1)
	(iii)	Peat.	(1)
(b)	(i)	Milk/beef/leather.	
	(ii)	Wool/mutton/milk.	(1)
(c)	Not e	nough food/machinery disturbs or kills.	(1)
(d)	Capercaillie/red squirrel.		(1)
Ques	stion 6		
(a)	(i)	Fish/wood chips.	(1)
	(ii)	Building/machinery/flat land/road links.	(1)
(b)	SEPA	SEPA.	
(c)	(i)	Seasonal.	(1)
	(ii)	Net/webpage/TV/glossy magazines/press/posters.	(1)
	(iii)	A long way to where people live/distance/remote/cost of transport/closed transport links.	(1)
	(iv)	Advantage: Getting rid of a waste product or making something out of a waste product/upgrading a waste product	(1)
		Disadvantage: Take a lot of fuel to get it there/road traffic.	(1)
	(v)	Solar/tidal/osmosis/hydro.	(1)
(d)	Recycle, they have a different use and have been processed.		(1)

Question 7

(a)	(i)	Not enough food.	(1)
	(ii)	2%.	(1)
	(iii)	Habitat.	(1)
(b)	(i)	4.	(1)
	(ii)	Dead nettle or cowslip and lavender.	(1)
	(iii)	They hibernate or active in summer only.	(1)
(c)	Cour	Countryside Premium Scheme/RSS/SRDP.	
(d)	(i)	Large Earth Bumblebee.	(1)
	(ii)	(2 from) black body, red tail stripe, stripes on body.	(1)
(e)	To se	see if the numbers are decreasing.	
(f)	Pand	anda or polar bear or tiger or other correct answer.	
Ques	stion 8		
(a)	One mark for correct scale, one for labels and one for bars. Zero to be included, bars of equal width, no daylight between candidate's and		
	correct line.		(3)
(b)	Edge	dge.	
(c)	(i)	Temperature/light intensity/pH.	(1)
	(ii)	Use a thermometer to take the temperature of the water/use a light intensity meter to measure the intensity at the surface of the water/use pH paper and record the colour/number.	(1)
(d)	Net and dip it into the water/sweep net/collect organisms on tray/observe, count and return. Net – 1 mark		
	Any 2 from method for second mark.		

[END OF MARKING INSTRUCTIONS]