



# **2014 Managing Environmental Resources**

## **Intermediate 1**

### **Finalised Marking Instructions**

© Scottish Qualifications Authority 2014

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 Assessment 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 Assessment 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.

## **Part One: General Marking Principles for Managing Environmental Resources Intermediate 1**

This information is provided to help you understand the general principles you must apply when marking candidate responses to questions in this Paper. These principles must be read in conjunction with the specific Marking Instructions for each question.

- (a)** Marks for each candidate response must always be assigned in line with these general marking principles and the specific Marking Instructions for the relevant question. If a specific candidate response does not seem to be covered by either the principles or detailed Marking Instructions, and you are uncertain how to assess it, you must seek guidance from your Team Leader/Principal Assessor.
- (b)** Marking should always be positive ie, marks should be awarded for what is correct and not deducted for errors or omissions.

### **GENERAL MARKING ADVICE: Managing Environmental Resources Intermediate 1**

The marking schemes are written to assist in determining the “minimal acceptable answer” rather than listing every possible correct and incorrect answer. The following notes are offered to support Markers in making judgements on candidates’ evidence, and apply to marking both end of unit assessments and course assessments.

## Part Two: Marking Instructions for each Question

Question			Expected Answer(s)	Max Mark	Additional Guidance
1	(a)	(i)	stream/pond/wild flower meadow forest plantation/pond/wild flower meadow shed/mini golf course/climbing frame/bird hide/hotel	2	All 3 responses correct = 2 marks 1 or 2 correct = 1 mark
1	(a)	(ii)	climbing frame/rope walkway/ wildlife viewing/mini golf course/ bird hide	1	
1	(a)	(iii)	waiter/waitress/manager/ receptionist/cleaner	1	
1	(a)	(iv)	e.g. logs for wood burning stove (1) bark chippings (1) for trail or path (1)	1 1	1 mark for product 1 mark for correct use
1	(b)		more chance customers somewhere for recreation etc or employment/relatives to stay	1 1	
1	(c)	(i)	Site of Special Scientific Interest	1	
1	(c)	(ii)	Scottish primrose	1	
1	(d)		education/give talks/nature patrol/provide practical advice	1	
2	(a)	(i)	plants/plankton/pond weed	1	
2	(a)	(ii)	tadpole/snail/animal plankton	1	
2	(a)	(iii)	plant plankton → animal plankton → minnow → perch	2	1 mark for organisms and 1 mark for arrows
2	(a)	(iv)	flow of energy/direction of energy flow	1	

Question			Expected Answer(s)	Max Mark	Additional Guidance
2	(a)	(v)	community	1	
2	(b)		sun	1	
2	(c)		<b>One from:</b> warmth/movement or indigestible material	1	
2	(d)		net	1	
3	(a)	(i)	glass	1	
3	(a)	(ii)	A lot can be carried at once/lorries have easy access to site/ more employment for locals  pollution from exhaust/using up fossil fuel/noise pollution/damage to roads	1  1	
3	(b)	(i)	glass	1	
3	(b)	(ii)	garden waste/cardboard/clothing	1	
3	(c)		1 mark for correct sectors and 1 for labels	2	
3	(d)		compost/refuse wrapping around bought items/reuse packaging	2	
4	(a)	(i)	<b>Any two from:</b> mushroom spawn/horse manure/straw/water	1	
4	(a)	(ii)	poly-tunnel/trough/land	1	
4	(a)	(iii)	used compost is sold on as soil improver	1	

Question			Expected Answer(s)	Max Mark	Additional Guidance
4	(a)	(iv)	to save on heat energy/so not as much heat is lost	1	
4	(a)	(v)	for easy distribution	1	
4	(a)	(vi)	<b>Positive</b> jobs/source of food/compost	1	
			<b>Negative</b> visual pollution of poly-tunnels	1	
4	(b)		decomposers	1	
4	(c)	(i)	oak, chestnut and alder	1	all for 1 mark
4	(c)	(ii)	Reishi and Lion's mane	1	both for 1 mark
4	(c)	(iii)	5	1	
4	(d)	(i)	Death cap	1	
4	(d)	(ii)	Both grow on the ground	1	
			Fly agaric has spots on the cap, ink cap does not	1	Must mention both species
5	(a)		to be farmed for fur	1	
5	(b)		Mink are smaller/have fluffier tails/ more pointed snouts	1	any two
5	(c)		no natural predator/lots of food	1	
5	(d)		population	1	

Question			Expected Answer(s)	Max Mark	Additional Guidance
5	(e)		Yes – gives native wildlife a chance  No – you should not kill any animal	1	
5	(f)		National	1	
5	(g)	(i)	Red squirrel or capercallie	1	
5	(g)	(ii)	Panda/blue whales	1	
6	(a)	(i)	Correct scale  Correct key  Correct bars	1  1  1	
6	(a)	(ii)	Direct relationship – decrease/ decrease <b>or</b> increase/increase	1	
6	(a)	(iii)	repeat (and average)	1	
6	(a)	(iv)	not to upset the ecosystem/return to natural habitat	1	
6	(b)	(i)	Moisture probe/meter  Insert into soil, read scale and then clean probe	1  2	Any correct point – 1 mark
6	(b)	(ii)	temperature/pH	1	
7	(a)	(i)	decreasing	1	
7	(a)	(ii)	30 to 20 approx	1	

Question			Expected Answer(s)	Max Mark	Additional Guidance
7	(b)		increase/acid rain	1	
7	(c)	(i)	30	1	
7	(c)	(ii)	Park and Ride/parking charges	1	
7	(d)	(i)	to see if levels change/rising levels are a danger to health	1	
7	(d)	(ii)	SEPA	1	
7	(e)		habitat destruction/rising sea level	1	
8	(a)	(i)	B	1	
8	(a)	(ii)	running, athletics, badminton	1	any indoor sport
8	(a)	(iii)	draining	1	
8	(a)	(iv)	housing/tourist accommodation/ student accommodation	1	
8	(a)	(v)	adverts/internet/specials offers/ events/sponsorship/host events	1	

Question			Expected Answer(s)	Max Mark	Additional Guidance
8	(b)	(i)	to allow objections	1	
8	(b)	(ii)	Must justify answer eg increase because more habitats/food supply	1	
8	(b)	(iii)	Millennium Forest	1	
8	(c)	(i)	can be made again	1	Not can be reused
8	(c)	(ii)	1 switch off lights when not in room/switch appliance off or do not use standby 2 shower not bath/switch off tap when not in actual use	1 1	

[END OF MARKING INSTRUCTIONS]