



2015 Managing Environmental Resources

Intermediate 1

Finalised Marking Instructions

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Part One: General Marking Principles for: Managing Environmental Resource 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 Resource 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.

Question			Expected Answer(s)	Max Mark	Additional Guidance
2	(a)	(iii)	1:3	1	
2	(a)	(iv)	Walking/orienteering/mountain biking/horse riding/ Any 2	1	
2	(b)	(i)	Building: visitor centre Reason: saves the most carbon for the least pay back pro rata	1	
2	(b)	(ii)	Sawdust/timber/logs	1	
2	(c)	(i)	Ecosystem = community + habitat	1	
2	(c)	(ii)	Blue whale/panda/polar bear	1	
2	(c)	(iii)	Wildlife and Countryside Act Scotland	1	
3	(a)	(i)	Bee, woodlouse, blackbird, spider, hedgehog Any 2	1	
3	(a)	(ii)	Omnivore	1	
3	(a)	(iii)	Honeysuckle → bee → spider → blackbird	2	must have arrows for 2 nd mark
3	(a)	(iv)	Movement or heat or indigestible food	1	
3	(a)	(v)	Sun	1	
3	(a)	(vi)	Decomposers	1	

Question			Expected Answer(s)	Max Mark	Additional Guidance
3	(b)		Decrease because no food/stay same/find alternative food source	1	
3	(c)	(i)	Buzzing spider	1	
3	(c)	(ii)	Hairy legs/stripes/smaller than 4mm Any 2	1	
4	(a)	(i)	1 mark for correct sectors and 1 mark for correct labelling	2	
4	(a)	(ii)	So that the materials are not lost or sent to landfill	1	
4	(a)	(iii)	Give owners rewards/education/phone banks	1	
4	(a)	(iv)	Switch off lights when not in room/switch off not standby/only boil required volume of water Any two	1	
4	(b)	(i)	1 mark for each correct part	3	
4	(b)	(ii)	Increase	1	
4	(b)	(iii)	Around 45% with appropriate reason	1	
5	(a)	(i)	They eat flesh/are carnivores	1	
5	(a)	(ii)	Highest hills and forest	1	
5	(a)	(iii)	Shoot/trap/poison Any 1	1	

Question			Expected Answer(s)	Max Mark	Additional Guidance
5	(a)	(iv)	Reintroduction programme	1	
5	(a)	(v)	The species no longer exists/none left	1	Not dying out
5	(a)	(vi)	Eagles might kill their animals	1	
5	(b)		Grey ate the food of the red/spread disease	1	
5	(c)	(i)	Rising sea/ice cap melting	1	
5	(c)	(ii)	Burning fossil fuels/aeroplane or vehicle emissions	1	
5	(d)		UV radiation Skin cancer	1	
6	(a)	(i)	To allow objections/legal requirement	1	
6	(a)	(ii)	B Physical requirement	1	
6	(a)	(iii)	To allow access	1	
6	(a)	(iv)	Advantage: Jobs or entertainment	1	
			Disadvantage: More traffic	1	

Question			Expected Answer(s)	Max Mark	Additional Guidance
6	(b)	(i)	<p>All for 2 marks 1 or 2 for 1 mark</p> <p>Design feature</p> <p>Large area of glass</p> <p>Triple glazing</p> <p>Flooring made from recycled tyres</p> <p>Local building materials</p>	2	<p>Method of Reducing Impact</p> <p>Reduce heat loss</p> <p>Reduce long-distance transport fumes</p> <p>Reduce energy required for lighting</p> <p>Reduce the need for new resources</p>
6	(b)	(ii)	£600 000	1	
6	(c)		<p>Health or cutting down emissions</p> <p>1 mark for linking the choice to a reason</p>	1	
6	(d)		<p>Plant hedge/tree/nectar bearing plants</p> <p>Any 2</p>	2	
6	(e)		2 for 1/advertising	1	
7	(a)	(i)	Site 2	1	
7	(a)	(ii)	Green	1	
7	(a)	(iii)	Deep water, less	1	
7	(a)	(iv)	Temperature/pH		

Question			Expected Answer(s)	Max Mark	Additional Guidance
7	(a)	(v)	Equipment: light meter Method: hold outwith shadow/same conditions for average	1 1	
7	(a)	(vi)	Quadrat		
7	(b)	(i)	70kg	1	
7	(b)	(ii)	Food/wood/seaweed Any 2	1	
7	(b)	(iii)	Take all rubbish home or dispose of in appropriate bins	1	
8	(a)	(i)	Water/hops/barley/yeast	1	
8	(a)	(ii)	Yeast	1	
8	(a)	(iii)	Economic Does not go to landfill	1 1	
8	(b)		Glass - can see the beer, reusable, recyclable; Plastic - light, less dangerous; Metal - recyclable	1	
8	(c)		Permanent	1	
8	(d)		Site of Special Scientific Interest	1	
8	(e)	(i)	SEPA	1	
8	(e)	(ii)	Turn off taps when not in use/when brushing teeth/shower not power-shower/shower not bath Any 2	1	

[END OF MARKING INSTRUCTIONS]