



2013 Managing Environmental Resources

Intermediate 1

Finalised Marking Instructions

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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	Natural, hedge/cereal/market garden/ built 3 for 2 marks 1/2 for 1 mark	2	
1	a	ii	transport/housing/tourism/forestry (any one)	1	
1	a	iii	cereal/strawberries/manure (any one)	1	
1	a	iv	Seasonal - strawberry picker/play area supervisor (any one) Permanent - tractor driver/farmworker/stable hand/waitress/cook/shop assistant (any one)	1 1	
1	a	v	Make more money/economic reason	1	
1	a	vi	Y - less chance of polluting stream/near to stable X - near to market garden/where it could be used	1	
1	b		Countryside Premium Scheme/LBAP (any one)	1	any other appropriate answer
1	c		lapwing/natterjack toad (any one)	1	any other appropriate answer

Question			Expected Answer/s	Max Mark	Additional Guidance
2	a	i	15%	1	
2	a	ii	Increasing or initial drop then increase	1	
2	a	iii	Does not run out/can be replaced/made again easily/infinite (any one)	1	
2	b	i	All sectors correct, meeting in centre (1) fully labelled (1)	2	
2	b	ii	Sun/geothermal/wood/biomass (any one)	1	
2	b	iii	Eg Wind Advantage No greenhouse gases (when working) Disadvantage Cannot operate without wind/noisy/negative visual	1 1	any other appropriate answer
2	c		sulphur dioxide moisture acid rain	2	All correct 2 marks 1/2 correct 1 mark
3	a	i	Lettuce → slug → thrush → cat Correct organisms = 1 mark Arrows = 1 mark	2	
3	a	ii	hedgehog eats both plants/strawberry/and animals/slug	1	
3	a	iii	Increase because fewer thrushes to eat ladybirds	1	

Question			Expected Answer/s	Max Mark	Additional Guidance
3	a	iv	sun	1	
3	a	v	<u>Direction</u> of energy flow	1	
3	b		Habitat destruction/fewer slugs/fewer strawberries/lack of food	1	any other appropriate answer
3	c		Scottish primrose	1	
3	d	i	Adonis ladybird	1	
3	d	ii	Body colour - black 3 spots on each side arranged in a straight line ●●● ●●●	1 1	Must be a single straight line
3	e		Plant trees/bushes/flowers/create a pond/have a log pile/provide food/provide nesting boxes (any one)	1	any other appropriate answer
4	a	i	Any two from: Walking/climbing/ski-ing/mountain biking/mountaineering	1	
4	a	ii	Erosion on path - Signage to stay on path/mend paths more frequently/ask for donations Litter – provide more bins/empty more often	1	
4	a	iii	Decomposer	1	
4	b		5	1	

Question			Expected Answer/s	Max Mark	Additional Guidance
4	c		Education/advertising campaign/more recycling centres/fines for incorrect recycling or not recycling 1 mark for any two	2	any other appropriate answer
4	d		Local		
5	a	i	Oats/water/grain	1	
5	a	ii	building/machinery/transport	1	
5	a	iii	driver/miller/manager/packer	1	any other appropriate answer
5	a	iv	Oat husks/porridge oats	1	
5	b		1. Save money/no need to rely on fuel suppliers 2. Less pollution/not using up a non-renewable resource	1 1	
5	c		SEPA – Scottish Environment Protection Agency	1	
5	d	i	Global warming	1	
5	d	ii	Rising sea levels/melting ice/ climate change	1	
6	a	i	3	1	
6	a	ii	1. must have zero and correct scale and label, 'Number'/Number of plants 2. correct key 3. bars correctly plotted, same width	3	

Question			Expected Answer/s	Max Mark	Additional Guidance
6	a	iii	plantain	1	
6	a	iv	Repeat investigation/do again	1	
6	b	i	Abiotic factor - eg soil moisture use a moisture meter remember to wipe clean after inserting into soil (leave for a few seconds before) taking reading	1 1 1	any other appropriate answer
6	b	ii	eg temperature/soil pH/wind speed/light intensity	1	
6	c		Pitfall trap	1	
6	d		Community	1	
7	a	i	45	1	
7	a	ii	3:1	1	
7	a	iii	Too much bought/too much cooked/sell by date problem/give into supermarket gimmicks/negative publicity of certain foods	1	any other appropriate answer
7	b		25	1	
7	c	i	Lettuce <u>and</u> tomato	1	
7	c	ii	Less waste to landfill/fewer trees being cut down/fewer resources used to make packaging	1	
7	c	iii	Earth Summit Rio	1	any other appropriate answer

Question			Expected Answer/s	Max Mark	Additional Guidance
8	a	i	Lack of jobs/lack of money/people moving away/depression	1	any other appropriate answer
8	a	ii	Presence of railway line/presence of quarry	1	
8	a	iii	Bus/tram/cycleway/park and ride	1	
8	a	iv	Screening (noise/visual)	1	
8	a	v	eg Disused factory to business centre Advantage - More jobs for locals Disadvantage – increased traffic	1 1 1	
8	a	vi	Increased – more habitats/presence of mixed woodland/presence of loch/more trees Decreased – more disturbance by people Stayed the same – combination of above	1	
8	b		Site of Special Scientific Interest	1	
8	c		Woodland Trust/Ranger service	1	any other appropriate answer
8	d		Hotels/shops/recreational facilities/airport/railway	1	any other appropriate answer

Question		Expected Answer/s	Max Mark	Additional Guidance
8	e	Energy Switch off lights/equipment when not in use/low energy light bulbs/don't use standby/boil just enough water	1	any other appropriate answer
		Water Low flush toilet/don't run tap when cleaning teeth/shower instead of bath	1	any other appropriate answer

[END OF MARKING INSTRUCTIONS]