



2009 Managing Environmental Resources

Intermediate 1

Finalised Marking Instructions

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Final Marking Scheme

Question 1

- (a) (i) Car park, any building, road. (1)
- (ii) X – near bushes anywhere in beds. (1)
- (iii) Natural. (1)
- (b) To allow easy access or attract passing traffic. (1)
- (c) R. (1)
- (d) To have control over developments or avoid conflict or allow objections. (1)
- (e) Shop assistant, car park attendant, waiter, chef, gardener. (1)
- (f) (i) No more trolleys stolen or saves money on replacements or safety. (1)
- (ii) No more trolleys dumped. (1)
- (g) (i) Charge customers for bags or give them rewards for bringing their own. (1)
- (ii) Bring a shopping bag or demand paper sacks/boxes. (1)
- (iii) So less plastic to landfill or oil will last longer or sustainability argument. (1)

Question 2

- (a) (i) Water vole – burrow flooded or heron has more area to fish or some plants washed away or small fish stranded on banking. (1)
- (ii) Soil moisture or temperature or turbidity or water flow rate. (1)
- (iii) Net. (1)
- (b) (i) Alga. (1)
- (ii) Carnivore. (1)
- (iii) Flow of energy. (1)
- (iv) Sun. (1)
- (c) (i) Grass Water Vole → Mink. (no arrow no mark) (1)
- (ii) Increase. (1)
- (d) Lapwing. (1)
- (e) Ecosystem. (1)

Question 3

- (a) (i) Advantage: jobs or cheaper heating or less to landfill.
Disadvantage: visual pollution or air pollution. (1)
- (ii) £120. (1)
- (iii) Switch off lights when not using them, do not use standby but switch off or only fill kettle with required amount or other acceptable answer. (1)
- (iv) Millennium Forest or ESAs. (1)
- (b) (i) 1 mark for correct sectors and 1 mark for correct labelling. (2)
- (ii) Garden waste or batteries or white goods or wood. (1)

Question 4

- (a) (i) Agriculture or pastoral farming or rough grazing. (1)
- (ii) Loch, nursery, plantation, native woodland (any two for one mark). (1)
- (iii) Renting houses, selling Christmas trees, fishing rights. (1)
- (iv) From the quarry. (1)
- (v) Red squirrel or Capercaillie. (1)
- (b) (i) Upwards/increasing. (1)
- (ii) More habitats or more food sources so more species. (1)

Question 5

- (a) (i) Small white. (1)
- (ii) Mainly dark wings or wings with orange patches or no spots (any two). (1)
- (b) (i) To find out if the species is in danger of extinction. (1)
- (ii) Global warming. (1)



Question 6

- (a) (i) Humpback and Minke. (1)
- (ii) 1,250. (1)
- (iii) Meat and blubber. (1)
- (iv) People leaving the villages or less whale to eat/sell or working in the city or high unemployment (any two). (1)
- (v) Yes: because it helps maintain a local community.
No: Whales need to be conserved. (1)
Either for 1 mark.
- (b) Ranger Service or Community Woodland Trust. (1)
- (c) Panda or blue whale. (1)
- (d) Whales eating fish or over fishing. (1)
- (e) Fishing quota. (1)

Question 7

- (a) (i) Buildings and machinery (named acceptable) and animals and bedding (any two). **(1)**
- (ii) Groom, waiter, float driver or permanent and temporary and seasonal (any two).
Or other acceptable answer. **(1)**
- (iii) Can continue no matter the weather. **(1)**
- (iv) Good road connections, has grazing land and water supply (any two). **(2)**
- (v) Advantage: jobs **(1)**
Disadvantage: increased traffic. **(1)**
- (b) G – because no pollution of stream. **(1)**

Question 8

- (a) (i) Label number of seaweeds. } 1 mark
Scale 0 – 10 in unit increments
- Key  Channelled wrack } 1 mark
 Bladder wrack (2)
- (ii) Decreases, increases then decreases, all three for two marks, one or two for one mark. (2)
- (iii) Channelled. (1)
- (iv) Have more sample points or repeat. (1)
- (b) Quadrat. (1)
- (c) Decreases. (1)
- (d) SEPA. (1)

Question 9

- (a) (i) Advantage: free or renewable or no emissions (1)
Disadvantage: expensive to set up or may interfere with wildlife or does not blow all the time. (1)
- (ii) Sun. (1)
- (iii) Triple glazing and insulation and soil on roof (any two). (1)
- (b) Bricks because they last longest or wood because it is cheapest/can be replaced. (1)
One mark for backing choice with correct reason.
- (c) Erodes buildings or acidifies lakes or kills wildlife. (1)
- (d) (i) Fewer emissions from transport vehicles or carbon footprint lower. (1)
- (ii) Less asthma or fitter or safer. (1)
- (e) Have a recycling depot or plant some trees or any environmental initiative. (1)
- (f) Local. (1)

[END OF MARKING INSTRUCTIONS]