



OXFORD CAMBRIDGE AND RSA EXAMINATIONS

GCSE (FOUNDATION TIER)

**ENVIRONMENTAL AND LAND-BASED
SCIENCE**

B493F

Management of the Natural Environment

Specimen Mark Scheme

The maximum mark for this test is **36**.

This document consists of **2** printed pages.

Question Number	Answer	Marks
1	B (AO1)	[1]
2	B (AO2)	[1]
3	C (AO2)	[1]
4	C (AO1)	[1]
5	C (AO1)	[1]
6	A (AO1)	[1]
7	C (AO2)	[1]
8	D (AO1)	[1]
9	C (AO2)	[1]
10	Silty clay loam (AO2)	[1]
11	P where sea meets land (AO2)	[1]
12	B at tree roots (AO2)	[1]
13	Grasshopper; Sparrow (AO2)	[2]
14	Any from hair for heat control; (AO2) claws for grip on trees; large back legs for leaping.	[2]
15	P at main road / car park/ housing development (AO2)	[1]
16	1. Place 2.5 cm depth of soil in a test tube. 3. Add 1 cm barium sulphate. 4. Add water, shake and allow to settle. 5. Compare the colour of the Universal Indicator with a PH colour chart. (AO2)	[3]
17	Less soil disturbance / weight better spread (AO1)	[1]
18	Maize	[1]
19	Adverse weather e.g. very dry, fruit not developed / heavy rain, crop flattened (AO1 and AO2) Weeds (1) Any two Compete for space / light / water / minerals (AO1 and AO2)	[1] [3]
20	Work can be done more quickly; will save time so other jobs possible; (reject cost unless qualified) (AO1).	[2]
21	Relevant environmental advantages; Max 3 Concept-ecological balance maintained i.e. no one resource over used (AO1)	[4]
22	Compaction will reduce air spaces; Compaction will reduce drainage / cause surface water run off (AO1).	[3]
Total		[36]