2001 HIGHER SCHOOL CERTIFICATE EXAMINATION

Earth and Environmental Science

Centre Number

Section I – Part B (continued)

Student Number

Marks

Question 25 (8 marks)

During the Earth and Environmental Science course, you have carried out a case study of a rehabilitation program in an area affected by salinity.

(a) Name the area you studied, and identify ONE cause of the salinity problem. **1**

The Rise and the fall of the water table.

(b) Describe the impact of this salinity problem. **3**

It was really quite severe. Many plants didn't grow, but mainly weeds which are hardy and Lantana grew.

(c) Evaluate the effectiveness of the rehabilitation strategy used at this site. **4**

Breaking down of the soil and planting of shrubs/veges/crops which are tolerant to salinity and which add nutrients into the ground.

It turned out well, still under process of the effectiveness.

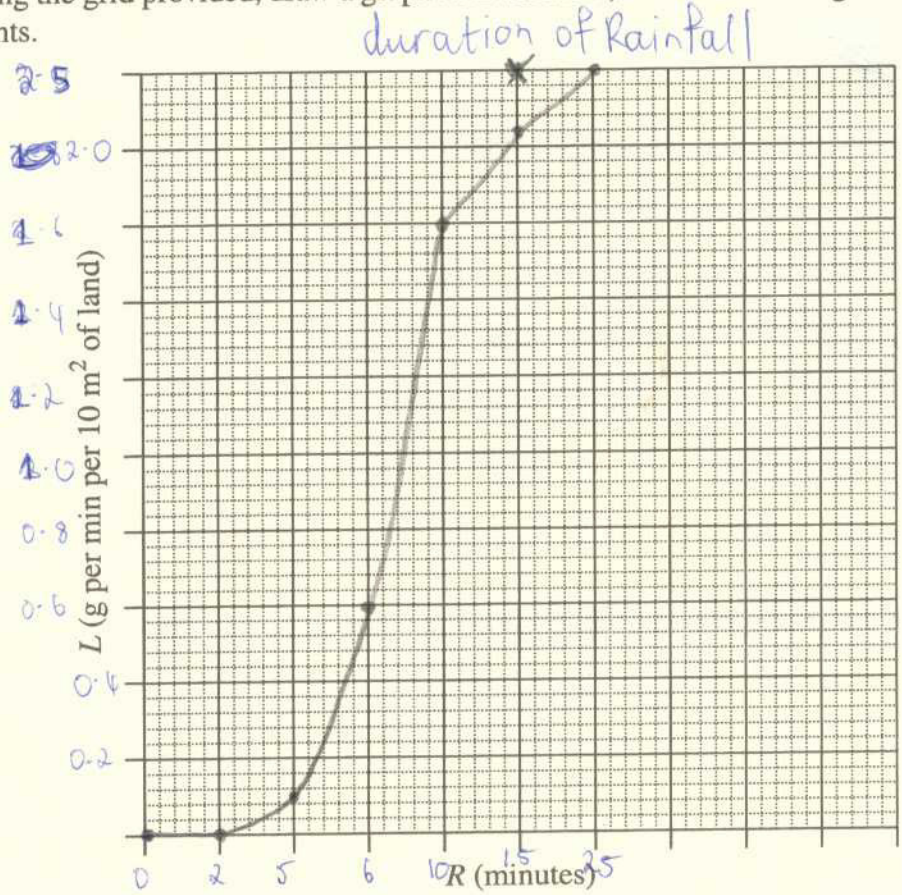
Marks

Question 26 (4 marks)

The table shows the duration of rainfall (R) and the rate of soil loss due to erosion (L) at a test site in an agricultural area.

Duration of rainfall (R) (minutes)	*Rate of soil loss (L)* (g per min per 10 m^2 of land)
0	0.0
2	0.0
5	0.1
6	0.6
10	1.6
15	2.1
25	2.5

(a) Using the grid provided, draw a graph of L versus R, with a line through the data points. **2**



(b) Describe the relationship between L and R. **2**

it shows the duration of Rainfall (R) & the rate of soil loss due to erosion (L) versing one another at a rate to see how much soil is lost due to the rainfall.

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