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**

Nambucca River, There were no trees around the area

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

Water washed away the banks not much salt in the soil no trees holding the bank in place

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

Trees are growing properly holding the soil in place, grass around the area is starting to grow back, the soil isn't being washed away

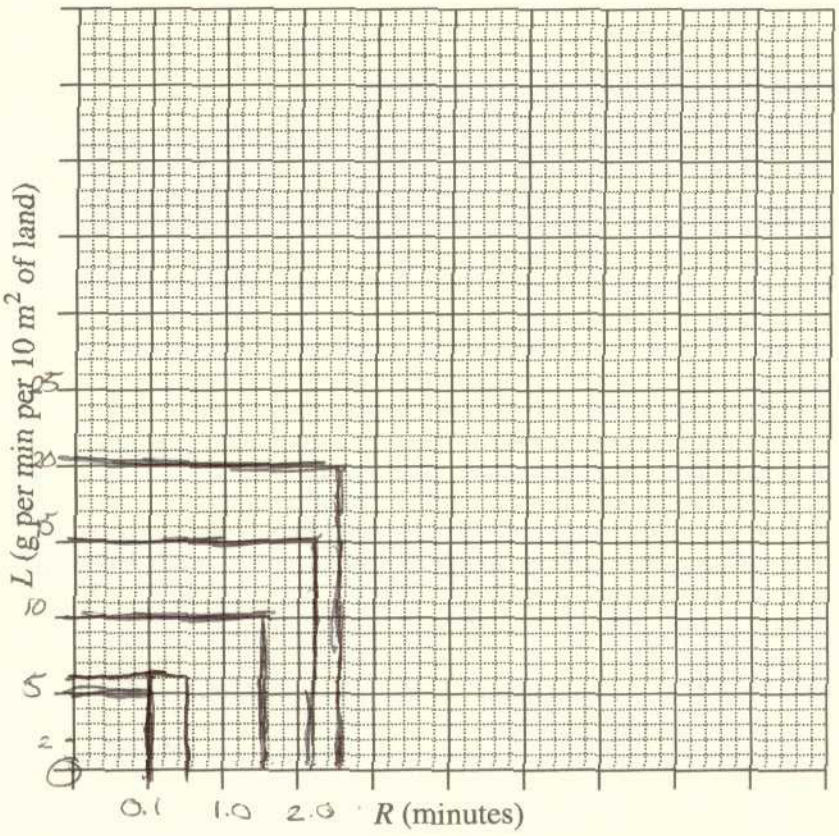
Marks

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**

most erosion damage occurs between 15 - over minute

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