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**

Murray Darling ~~Basin~~ Basin

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

The land is far too salty to be farmed. This was caused by the rising of the water table from poor farming ways such as flood irigation.

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

Planting of salt toleront trees and bush is helping to lower the water table but don't make money for the farmer.
Micro jet watering instead of flood irigation ~~helps~~ prevents the need for rehabilitation. take no risks prevention is the cure.

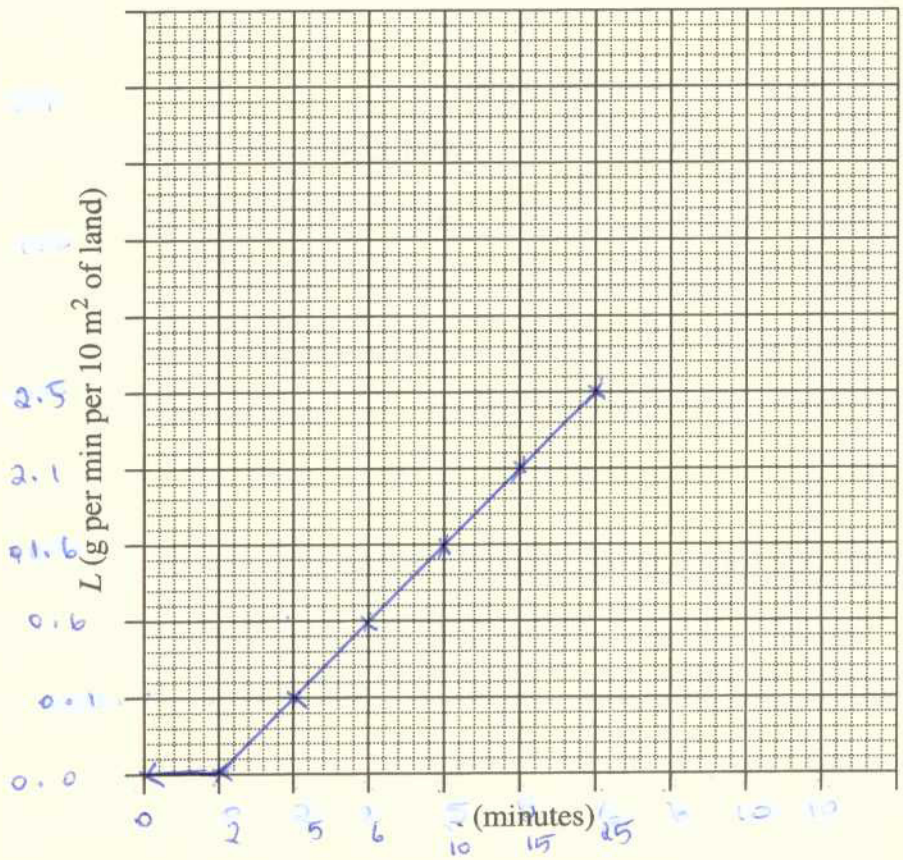
Marks

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**

~~B~~ RELATIONSHIP BETWEEN L AND R IS THAT R DEPENDS ON L. AS THE DURATION OF RAINFALL INCREASE SO DOES THE ~~SOIL~~ RATE OF SOIL LOSS.

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