

SECTION A (40 marks)

Answer all the questions in this section in the spaces provided.

1. In an experiment to investigate the effect of sodium chloride on the growth rate in a spinach seedling, seeds were treated with different concentrations of sodium chloride. The results are as recorded in the table below.

Concentration of sodium chloride (mol/l)	Percentage of spinach seeds which started to grow roots	Mean root length (mm)
0.00	99.98	17.70
0.06	98.20	15.60
0.12	92.0	10.20
0.18	54.0	7.60

- (a) From the results in the table above, explain the effect of increasing the concentration of sodium chloride. (3 marks)
- (b) Apart from a ruler, state **two** other equipment one would need to determine the rate of growth in the roots. (2 marks)

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