(b) What was the total dry weight on day 5? (1 mark)

(c) Account for

(i) decrease in dry weight of endosperm from day 0 to 10 (2 marks)

(ii) increase in dry weight of embryo from day 0 to day 10 (2 marks)

(iii) decrease in total dry weight from day 0 to day 8 (1 mark)

(iv) increase in total dry weight after day 8. (1 mark)

(d) State two factors within the seed and two outside the seed that cause dormancy.

(i) Within the seed. (2 marks)

(ii) Outside the seed. (2 marks)

(e) Give two characteristics of meristematic cells. (2 marks)

Candidates were required to draw graphs of time against dry weight changes of embryo, endosperm and total dry weight during germination and account for the changes. Knowledge about seed dormancy was also required.

Weaknesses

Drawing of the graphs was not difficult but accounting for the changes proved difficult. Causes of dormancy in seed and means of breaking it were not well known.

Expected Response

a) Graph
Scale;
Axes;
Curves;
Plotting points;