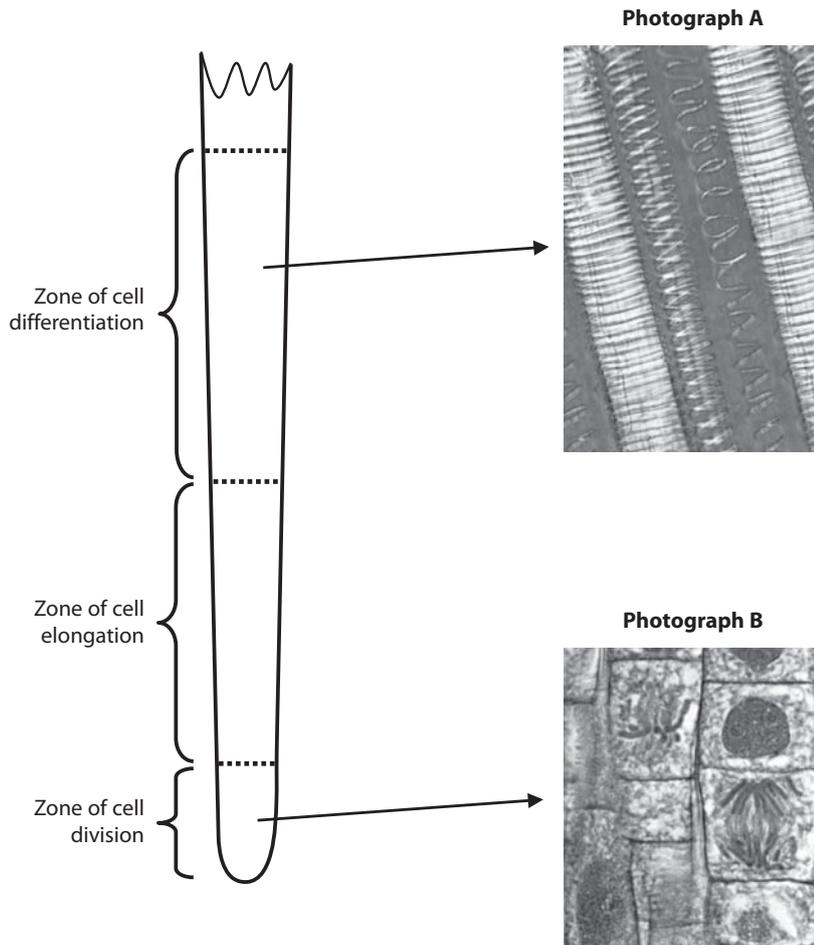


3 In the roots of plants, cell division, cell elongation (growth) and cell differentiation occur in different zones near the root tip.

The diagram below show the three different zones in a root. Photographs **A** and **B** show some of the tissues present in two of these zones.



(a) (i) Name the specialised tissue shown in photograph **A**.

(1)

*(ii) Describe and explain how this tissue is adapted for the transport of water and support in a plant.

(4)

(b) Explain how differential gene expression could result in the specialisation of cells.

(3)



