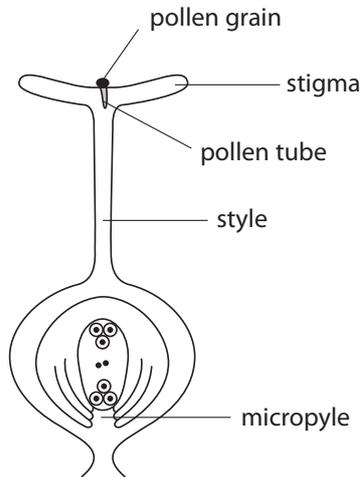


5 Water is important for many different processes in plants including successful pollen tube growth.

(a) The diagram below shows a pollen grain growing on the stigma of a flower.



(i) The pollen tube grows from the pollen grain to the micropyle. Suggest **one** stimulus, other than water, that causes the pollen tube to grow towards the micropyle.

(1)

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(ii) The tip of the growing pollen tube releases digestive enzymes into the style. Suggest the role of these digestive enzymes in the growth of the pollen tube.

(3)

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(b) Give **three** roles of water in a plant other than for pollen tube growth.

(3)

1

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2

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3

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(Total for Question 5 = 7 marks)

