

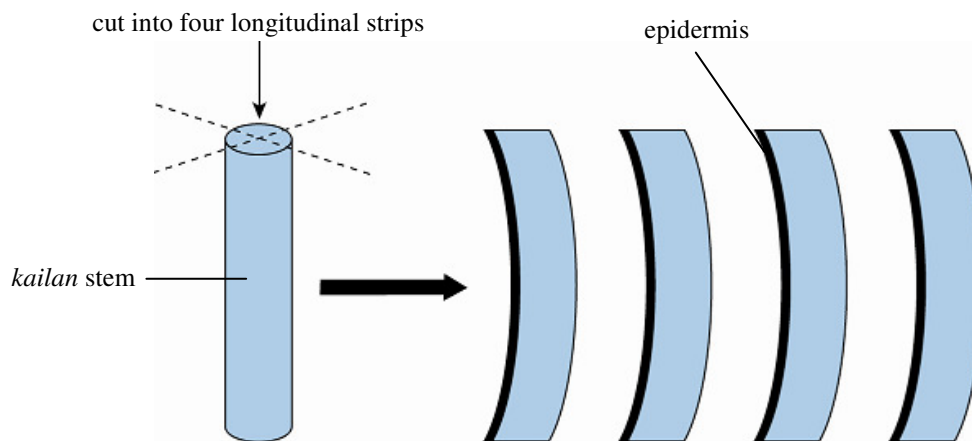


CHAPTER 3: MOVEMENT OF SUBSTANCES ACROSS THE PLASMA MEMBRANE



The Effects of Hypotonic, Hypertonic and Isotonic Solutions

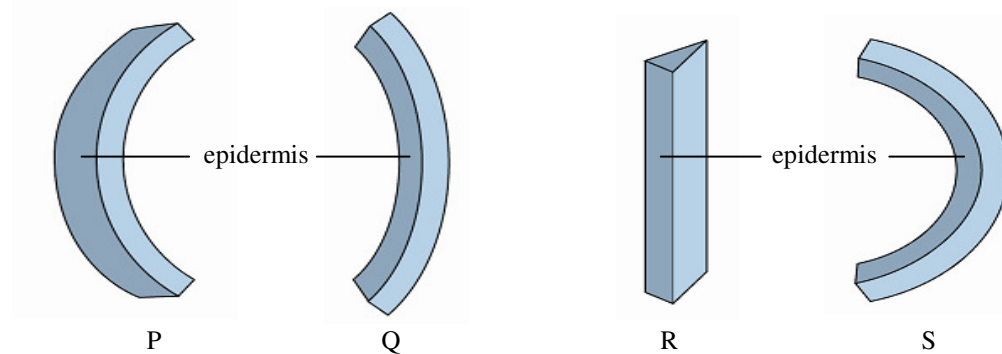
1. A fresh *kailan* stem was cut into four longitudinal strips in an experiment. The four strips of *kailan* stem curved immediately after being cut.



Which of the following statements explain the phenomenon shown in the diagram?

- I The thick epidermal wall does not stretch.
 - II The inner layer of the stem is more elastic.
 - III The inner layer of the stem stretches easily.
 - IV The epidermis has thick cellulose walls which are less elastic.
- A** I and II only
B III and IV only
C I, III and IV only
D I, II, III and IV

2. The diagram below shows the results of immersing four strips of *kailan* stem in four solutions, P, Q, R and S, of different concentrations.



Which of the following shows the arrangement of the solutions in ascending order of concentration?

- A** P, R, Q, S
- B** Q, O, S, R
- C** R, Q, P, S
- D** S, Q, R, P