

- 9 (c) (i) Fig. 17.2 is a diagram of part of the plasma membrane of a Chromista cell.

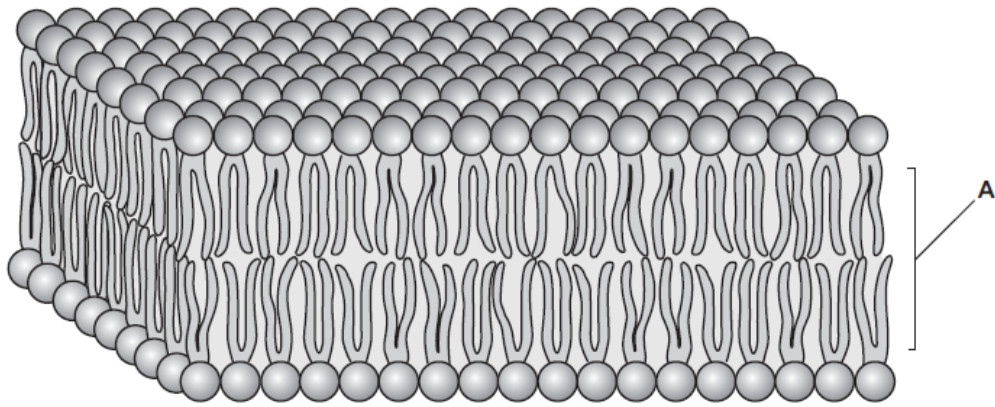


Fig. 17.2

State and explain how **one** property of region **A** in Fig. 17.2 contributes to the stability of the plasma membrane. [2]

Region A contains cholesterol. Cholesterol is present in the phospholipid bilayer where it provides strength to and regulates the fluidity of the plasma membrane.

- 9 (c) (ii) There are differences between the plasma membrane and membranes within cells.

Outline the role of membranes **within** cells. [2]

Membranes are required within cells for compartmentalisation. They are also the site of important chemical reactions and processes e.g. oxidative phosphorylation in mitochondria, photophosphorylation in chloroplasts.

Total Marks for Question Set 9: 12

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