

15 What are the main roles of glycolipids in cell surface membranes?

- 1 to help cells to attach to each other to form tissues
- 2 to act as antigens for cell-to-cell recognition
- 3 to increase fluidity for the cell surface membrane

A 1, 2 and 3 **B** 1 and 2 only **C** 1 and 3 only **D** 2 and 3 only

17 What can increase the fluidity of the cell surface membrane at low temperatures?

- 1 double bonds between carbon atoms in the fatty acid chains
- 2 cholesterol
- 3 fatty acids having shorter chains

A 1, 2 and 3 **B** 1 and 3 only **C** 1 only **D** 2 and 3 only

18 Which statements about the proteins and glycoproteins in cell surface membranes are correct?

- 1 They can allow cells to bond together to form tissues.
- 2 They can recognise messenger molecules like hormones.
- 3 They can be antigens and allow cell-to-cell recognition.

A 1, 2 and 3 **B** 1 and 2 only **C** 1 and 3 only **D** 2 and 3 only

14 Which statement about phospholipids in the bilayer of a cell surface membrane is correct?

- A** The non-polar phosphate heads face outwards and the polar fatty acid tails face inwards.
- B** The polar phosphate heads face outwards and the non-polar fatty acid tails face inwards.
- C** The non-polar fatty acid tails face outwards and the polar phosphate heads face inwards.
- D** The polar fatty acid tails face outwards and the non-polar phosphate heads face inwards.