OCR AS/A-level Year 1 Biology A exam practice answers

**6 Biological membranes**

**1 (a**) These molecules move by simple diffusion from a high concentration to a lower concentration. [2]

 **(b)** Endocytosis — the plasma membrane folds inwards, surrounding the molecule in
a small vacuole. [3]

**2 (a)**

 [4]

 **(b)** Cell C has a lower water potential than pure water. Water will move into the cell by osmosis. The water will move down its water potential gradient. [3]

**3 (a)** Cholesterolstabilises the phospholipid bilayer, making it less fluid. [1]

 **(b)** A glycoprotein is a binding site. [2]

 **(c)** Phospholipids produce a barrier to movement of polar molecules. [2]

**4** Vesicles have specific address proteins in their membrane. These address proteins have a specific shape, which is complementary to receptors. Receptors are found on the membrane of the correct organelle. [4]