

Chapter 1 Cells

In-text questions

1.

Part	Animal cells	Plant cells
cell membrane	Y	Y
cytoplasm	Y	Y
nucleus and nuclear membrane	Y	Y
chromosomes in nucleus	Y	Y
cell wall	N	Y
vacuole	N	Y
chloroplasts	N	Y

2. **Similarities**

- plant and bacterial cells both have cell walls
- both have cytoplasm

Differences (any two)

- in plants the cell wall is made of cellulose – in bacteria it is made of a different material
- bacteria do not have a nucleus
- bacteria have plasmids

3. a) Stem cells are of interest to medical researchers because they can differentiate into many cell types therefore can be used to grow tissues or even organs to treat patients or for medical research into medical conditions – stem cells could help treat diabetes, spinal cord injury, stroke damage and many other conditions.
- b) Scientific advisers have the knowledge to understand the potential of stem cell research. They also have the knowledge to understand the limitations of stem cell research and the type of ethical scenarios that could arise.
4. The upper apices will not grow but the side apices will continue to grow making the plant bushier but not higher – ideal if used in a hedge or for cover.

Exam questions (page 6)

1. a) i) A – eyepiece; B – stage ; C – light source/lamp (3 marks)
 ii) To focus the image. (1 mark)
 iii) $10 \times 4 = 40$ (2 marks)
- b) i) So the structures are more easily seen. (1 mark)
 ii) Coverslip is being lowered over the tissue. (1 mark)
- c) i) A – nucleus; B – cytoplasm; C – vacuole (3 marks)
 ii) 45 mm (1 mark)
2. a) Cell wall drawn outside cell membrane; labelled (cell wall); vacuole drawn inside cell membrane and excluding nucleus; labelled (vacuole); chloroplast(s) drawn between vacuole and membrane; labelled (chloroplasts). (6 marks)
- b) i) 10 (mm) (1 mark)
 ii) $10/100$; Dividing by magnification; 0.1 correct computation (–1 mark for cm) (1 mark)

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Anthony S. Fauci



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