

Cell biology

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Timer: 15 minutes. No calculator unless a question needs one. Answers are on the next page.

Q1. Name one structure found in plant cells but not in animal cells.

Q2. Is a bacterium eukaryotic or prokaryotic? Give one reason.

Q3. A cell image is 40 mm wide. The real width is 0.04 mm. Calculate the magnification.

Q4. What is the function of mitochondria?

Q5. Why are root hair cells adapted for absorption?

Q6. Convert 5 mm to micrometres (μm).

Q7. Give one use of adult stem cells and one ethical issue with embryonic stem cells.

Q8. Mitosis produces cells that are genetically _____.

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- Q1.** Cell wall / chloroplast / permanent vacuole (any one)
- Q2.** Prokaryotic DNA is a loop in the cytoplasm / no nucleus
- Q3.** 1000 (40 / 0.04)
- Q4.** Aerobic respiration / release energy
- Q5.** Large surface area (and thin wall / mitochondria for active transport)
- Q6.** 5000 μm
- Q7.** e.g. bone marrow transplant; embryo is destroyed / potential life
- Q8.** identical

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