



Multiple Choice Test - Cell Biology - Test 1 (OPTIONAL FOR REVISION)

Quiz set by Mrs. L. OLIVER for Year 11/11S/Sc4

1) Which sub-cellular structure is present in a plant cell but not an animal cell?

- Cytoplasm
- Cell Wall
- Mitochondria
- Cell Membrane

2) What is the correct formula to calculate magnification?

- size of image x size of real object
- size of image \div size of real object
- size of real object \div size of image
- size of image + size of real object

3) What is the function of the mitochondria?

- This is where proteins are made.
- During aerobic respiration, this is where most energy is released.
- It controls the passage of substances into and out of a cell.
- Controls all activities of the cell.

4) Which of these is an example of a prokaryotic cell?

- Plant Cell
- Bacteria
- Animal Cell
- Virus

5) Which of these is a factor which does not affect diffusion?

- the surface area of the membrane
- The volume of the solution
- The temperature
- The difference in concentrations (concentration gradient)

6) Osmosis is the movement of.....

- Carbon Dioxide
- Urea
- Oxygen
- Water

7) What is an adaptation of a sperm cell?

- Lots of mitochondria
- No nucleus
- Large surface area
- Many ribosomes

8) What is an adaptation of a root hair cell?

- Many ribosomes
- Many mitochondria
- Large surface area
- No nucleus

9) Which of the following is a disadvantage of stem cell therapy?

- Stem cells have the potential to cure a wide range of diseases
- Stem cells are capable of turning into any type of cell
- Transplants using stem cell therapy may pass on viruses
- Stem cells could be used to test the effects of new drugs

10) During osmosis and diffusion particles go from.....

- High to Low concentration
- the cytoplasm to the nucleus
- Low to high concentration
- a nucleus to the cytoplasm



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