

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?

- Cell Wall
- Cell Membrane
- Mitochondria
- Cytoplasm

2) What is the correct formula to calculate magnification?

- size of image \div size of real object
- size of real object \div size of image
- size of image \times size of real object
- size of image $+$ size of real object

3) What is the function of the mitochondria?

- During aerobic respiration, this is where most energy is released.
- This is where proteins are made.
- 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?

- Bacteria
- Plant Cell
- Animal Cell
- Virus

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

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

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

- Water
- Oxygen
- Carbon Dioxide
- Urea

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?

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

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

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

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

- High to Low concentration

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



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