THE CELL – QUESTION

1. Which organelle would be abundant in?
   - Skeletal muscle cell
   - Palisade cell

2. State the functions of the following organelles.
   - Lysosomes
   - Golgi apparatus

3. State the functions of the following organelles:
   - Golgi apparatus
   - Ribosomes cell

4. Name the organelles that perform each of the following functions in a cell.
   - Protein synthesis
   - Transport cell secretions

5. The diagram below represents a cell.
a) Name the parts labeled x and y

X _______________

Y _______________

b) Suggest why the structures labeled x would be more on one side than the other side.

6.

a) State the function of cristae in mitochondria (1mk)

b) The diagram below represents a cell organelle

![Diagram](image)

(i) Name the part labeled Y (1mk)

(ii) State the function of the part labeled X (2 mks)

7.

a) What is the formula for calculating linear magnification of a specimen when using a hand lens? (1mk)

b) Give a reason why staining is necessary when preparing specimens for observation under the microscope. (1mk)

8.

State three functions of Golgi apparatus. (3mks)
9. Name two structures found in plant cell but are absent in animals cell.

10. Write the role of the following parts of a microscope
   i) Nerve cell
   ii) Palisade cell
   iii) Root hair cell
   iv) Red blood cell

11. The diameter field of view of a light microscopic is 3.5mm. Plant cells lying of the diameter are

10. Determine the size of one cell microns (1mm = 1000µm)

12. Define the following
   i) Tissue
   ii) Organ
   iii) Organ system