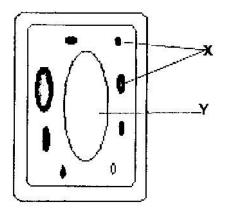
THE CELL

PAST KCSE QUESTION ON THE TOPIC

- Which organelle would be abundant in? 1. Skeletal muscle cell _____ Palisade cell _____ State the functions of the following organelles. 2. Lysosomes Golgi apparatus _____ 3. State the functions of the following organelles; Goigi apparatus Ribosomes cell Name the organelles that perform each of the following functions in a cell. 4. Protein synthesis Transport cell secretions
- 5. The diagram below represents a cell.

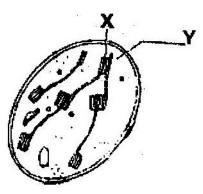


a)	Name the parts labeled x and y
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- X_____
- Y _____
- b) Suggest why the structures labeled x would be more on one side than the other side.

6.

- a) State the function of cristae in mitochondria (1mk)
- b) The diagram below represents a cell organelle



- (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 = 1000μ m)
- 12. Define the following
 - i) Tissue
 - ii) Organ
 - iii) Organ system