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Natural Sciences Task 1
 Model of a Plant cell
 Marks: 50
 Duration: 1 Week
 Date:

Instructions

1. Write your Surname, Name, and class on the answer sheet.
2. Answer all questions.
3. Follow the instructions and numbering of each question.
4. All drawings should be done in pencil and labelled in blue or black ink.
5. Write neatly and legibly.
6. Work independently.

Section A

Answer the following questions in an answer sheet:

- 1) Draw a diagram of a plant cell. Remember to follow the diagram rules. (8)

Mark allocation

- 1 Mark for heading.
- 1 Mark for diagram in pencil
- 1 mark for diagram at least half a page
- 5 marks for any 5 correct labels.

- 2) Tabulate seven difference between the plant and animal cells. (7)

- 1 Mark For heading
- 1 mark for table form
- 1 mark for column headings
- 4 marks for differences(include shape as a difference)

3) Match the organelle in column A with the function in column B. write down the answers only.
(10)

Column A		Column B	
1	Nucleus	A	Surrounds the nucleus.
2	Chloroplast	B	Protein factories of the cell
3	Mitochondrion	C	Contains all the genetic material of the cell.
4	Cell Wall	D	Controls what goes into and out of the cell.
5	Vacuole	E	Contains all the organelles
6	Cytoplasm	F	Stores water and mineral salts and keeps the cell turgid.
7	Cell membrane	G	Strengthens and Mechanically protects cells
8	Nucleolus	H	Respiration takes place here. Energy factory of the cell.
9	Ribosome	I	Place where photosynthesis takes place
10	Nuclear membrane	J	Controls all the activities of the cell

Section 2

Build a model of a plant cell.

Your model should not be larger than that of an A3 paper.

All organelles must be the correct shape and size in relation to other organelles.

Your model must be sturdy.

Organelles must be labeled.

The model must show that the plant cell is a 3 dimensional object.

The following rubric will be used to assess your model:

	0	3	5
Size	No Model given.	Model smaller than A3 sized paper.	Model large enough to use for display purposes in a class.
Labels	No labels given	Labels given but inaccurate	Labels given and correct
Organelle size and shape	Shapes / Sizes of organelles out of proportion.	Some shapes / sizes of organelles out of proportion.	All shapes / sizes of organelles in proportion.
Stability of model	Model falls apart when handled	Some loose parts	Model strong and sturdy
Model is 3D	Only 2 dimensional	Gives impression of 3 dimensions	Completely 3 dimensional
Total			25