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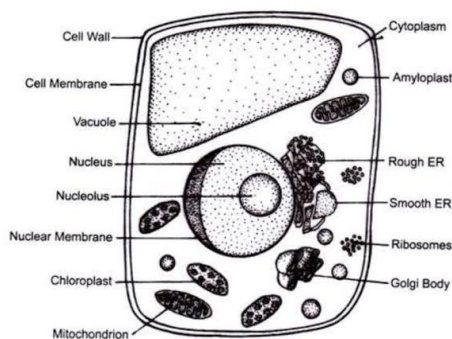
ACTIVITY OF INTEGRATION
ULTRA STRUCTURE OF PLANT AND ANIMAL CELLS
SENIOR FIVE: TERM I 2025

SCENARIO

A group of botanists are studying the effects of a new growth factor on the cellular structure and function of cells. They extracted the factor from the wild vanilla and want to see its effect on plant growth and function. After the experiments in the lab the following observations were made from the micro graphs:

- ✓ Increase in the number of the endoplasmic reticulum and Golgi apparatus.
- ✓ The cytoskeleton changed its configuration in the cell and the cell shapes changed .
- ✓ The number of dictyosomes and peroxisomes increased .
- ✓ The mitochondria and chloroplast also greatly increased in their structure and function.
- ✓ The findings left all of them in the daze and this was far different from their expectations.

SUPPORT MATERIAL



Task

As new cytologists, help this team to know the effects of the growth factor at cellular level and its overall effects on plant growth.

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