



INDIAN SCHOOL NIZWA WORKSHEET

BIOLOGY

CH:5 FUNDAMENTAL UNIT OF LIFE -ASSERTION /REASON

Name: _____

Date: _____

Class: IX Sec: ABC

BIOLOGY - ASSERTION /REASON – CH 5

- Assertion :** A cell swells up when present in a hypotonic solution.
Reason : More water molecules enter the cell than they leave.
- Assertion :** The endoplasmic reticulum which lacks ribosomes is called smooth endoplasmic reticulum
Reason : SER is mainly involved in protein synthesis.
- Assertion :** Mitochondria and chloroplasts are semiautonomous organelles.
Reason : They are formed by division of pre-existing organelles and contain DNA but lack protein synthesizing machinery.
- Assertion :** Plasma membrane is selectively permeable.
Reason : Plasma membrane allows some molecules to pass through it more easily than others.
- Assertion :** Leucoplasts perform photosynthesis.
Reason : Chloroplasts contain chlorophyll.
- Assertion :** Cell wall is a non-living part of the cell.
Reason : It offers protection, definite shape and support.
- Assertion :** A cell membrane shows fluid behaviour.
Reason : Cell membrane is a mosaic of lipids and proteins.
- Assertion :** A plant cell bursts if placed in water.
Reason : High turgor pressure causes bursting of plant cells.
- Assertion :** Mitochondria are called 'powerhouses' of the cell.
Reason : Mitochondria produce cellular energy in the form of ATP.
- Assertion :** Plant cells have very large vacuoles.
Reason : In plant cells, vacuoles are full of cell sap.



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