

DOON PUBLIC SCHOOL

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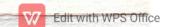
Session 2021-22
Summer Assignment
Class IX
Subject - Biology (Science)



QUESTIONS

Given below are questions based on analogy. Fill in the blanks with appropriate answer.

- 1. Colourless plastids : Leucoplasts :: Green plastids :
- 2. Golgi apparatus : Dictyosomes :: Palade particles :
- 3. Mitochondria 😮 Power House of the cell :: ATP :
- 4. Diploid human cell : 46 chromosomes :: Haploid human gamete cell : _____
- 5. Lysosomes : Cellular housekeepers :: Chloroplasts :
- Given below are some queries. Give briefly possible reasons. What will happen?
 - 1. Raisins are kept in water.
 - 2. Fresh grapes are kept in concentrated sugar solution.



- 3. Plant leaves are boiled and then a drop of concentrated sugar solution is added on the boiled leaves.
- A person takes concentrated solution of salt ,after sometime, he starts vomiting . What is the phenomenon responsible for such situation? Explain.
- Draw well labelled diagrams of Prokaryotic cells and Eukaryotic cells.
- Which of Plastids are more common in
 - 1. Roots of the plant
 - 2. Leaves of the plant
 - 3. Flowers and Fruits

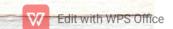
ACTIVITY

Carry out the following osmosis experiment:

Take tour peeled potato halves and scops each one out to make potato cups. One of these potato cups should be made from a boiled potato. Peach potato cup into a trough containing water.

Now

- (a) keep cup A empty
- (b) put one teaspoon sugar in cup B.
- (c) put one teaspoon salt in cup C.



(d) put one teaspoon sugar in the boiled potato cup D.

Keep these four 2 hours. Then observe them and answer the following:

- (I) Explain why water gathers on the hollowed portion of B & C.
- (II) Why is potato A necessary for this experiment?
- (III) Explain why water does not gather in the hollowed out portions of A & D?

PROJECT

Prepare a PPT (power point presentation) on different cell orgenelles of an *Animal cell*

Find out about "size and shapes of different cells" through internet. Prepare a report on it.

Make lapbook of Plant cell, Animal cell and Fluid Mosaic Model of Plasma membrane.

