GIRLS' HIGH SCHOOL & COLLEGE PRAYAGRAJ
SESSION 2020-2021
CLASS 10 A,B,C,D,E,F
SUBJECT- BIOLOGY
ASSIGNMENT-2

<u>INSTRUCTIONS FOR THE E-LEARN ASSIGNMENT:</u>
The Parents to ensure that their ward watches the video instructions for this assignment by clicking on the given link https://youtu.be/-0-Q9ttnC8Q
She should revise the lesson given in the book and then work on the assignment. The completed assignment is to be downloaded and filed/ pasted in the subject file/ copy and kept ready for submission. The day, date and procedure of submission shall be notified later.

CHAPTER- 4
ABSORPTION BY ROOTS

Answer the following questions:
Q1. Define the following terms:
    (a) Diffusion
    (b) Osmosis
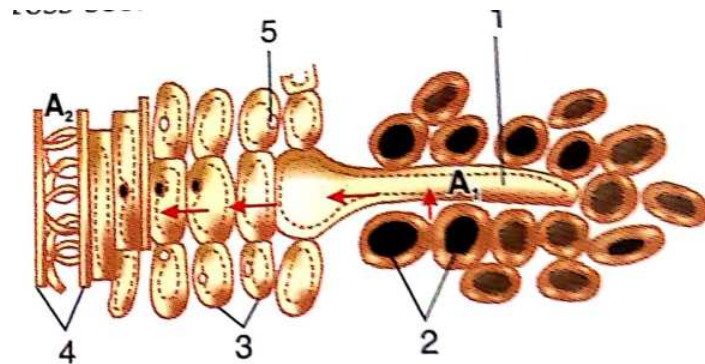
(c) Imbibition

(d) Plasmolysis

(e) Active transport

Q2. Differentiate between the following terms:

(a) Endosmosis and Exosmosis

(b) Plasmolysis and Deplasmolysis

(c) Active transport and Passive transport

(d) Turgor pressure and Wall pressure

(e) Turgidity and Flaccidity

(f) Hypotonic solution and Hypertonic solution
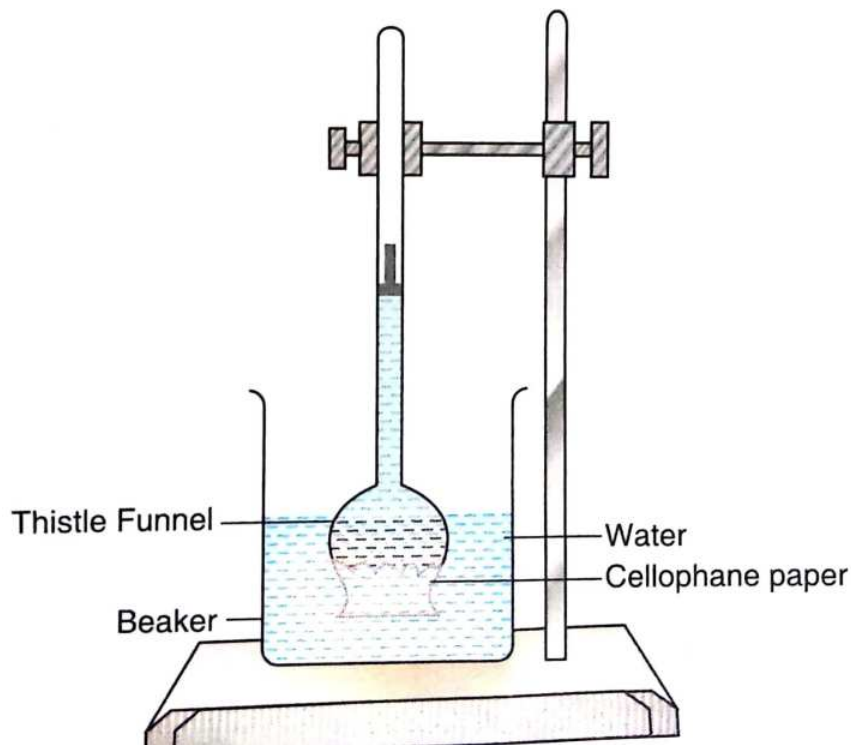
Q3. Give reasons for the following:

(a) Fresh water fish cannot survive in sea water.

(b) Grass is killed if salt is sprinkled on it.

Q4. Given below is a diagrammatic representation of a part of the cross section of the root in the root hair zone.

(a) Name the parts indicated by guidelines 1 to 5.

(b) Is the root hair cell unicellular or multicellular?

(c)Name the process that is responsible for the entry of water molecules from the soil into A1 and then A2.

(d)What pressure is responsible for the movement of water in the direction indicated by the arrow?

(e)How does the pressure set up?

Q5. The diagram of a set-up to study a very important physiological process is given:

Thistle Funnel

Water

Cellophane paper

Beaker

(a) Name the process being studied.

(b) Explain the process.

(c) What change would you observe in the thistle funnel containing sugar solution after 10 minutes?

(d) Is sugar solution hypertonic or hypotonic ?

(e) Name the part of the plant cell which is represented by the sugar solution.

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