

St. Mary's School, Dwarka
Holiday Homework
Subject: Biology
Class: XI
Week 1
Worksheet 1

Objective:

- Revision of concepts
- Application of the concepts to real life situations.
- Skills to carry out research work and develop scientific aptitude

Instructions:

- ❖ Neatly write all the answers in your science notebook.
- ❖ Attempt the questions keeping in mind the weightage of each question.
- ❖ Assignment 'Summer Holiday Homework' will be created on TEAMS. PDF of handwritten work should be uploaded on it.

Answer the following questions:

- Q1. Draw a well labelled diagram of a flowering plant showing root and shoot system. 2
- Q2. Draw and label the diagram to show the regions of the root. 2
- Q3. Mention the functions of the roots. 2
- Q4. Draw and label a typical leaf. 2
- Q5. Define a node and an internode. 2
- Q6. What are adventitious roots? Give examples. 3
- Q7. What are the various modifications of leaf? Mention their functions. 3
- Q8. What do you mean by placentation? Mention the different types of placentation. 3
- Q9. Define phyllotaxy and venation. 3
- Q10. Draw and label the T.S. of a typical flower. 3

Research work

- A. Find out about the semi technical description of a flower and find out the application to study floral diagram and floral formula.
- B. Seeds are the most important derivatives of plants as they help in perpetuation of species. Make a list of seeds that are used in our daily diet. Classify them into various nutrients of food.