

**St. Mary's School, Dwarka**  
**Holiday Homework**  
**Subject: Biology**  
**Class: XI**  
**Week 4**  
**Worksheet 4**

**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:**

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| Q1. What do you mean by root modification?   | 1 |
| Q2. What is the difference between tap root and adventitious roots?  | 2 |
| Q3. Draw a well labelled diagram showing all the parts of root and shoot system?   | 2 |
| Q4. Draw and label the different regions of the root.  | 2 |
| Q5. Draw and label the T.S of a typical flower.  | 2 |
| Q6. Draw and label androecium and gynoecium.   | 2 |
| Q7. Find out the cause of any three plant diseases. Which part of the plant gets affected?<br>What is the adverse effect on the plants?  | 3 |
| Q8. Take one lady finger, cucumber, apple, tomato, chilli and lemon. Cut the transverse and longitudinal section of each fruit. Observe the arrangement of seeds. Draw the diagram.  | 3 |
| Q9. Collect any three flowers. Count the number of sepals and petals of each flower.   | 3 |
| Q10. Find out the recipe of green chutney from your mother. List the ingredients and mention the part of the plant against each ingredient. Find out the benefits of each plant product. Prepare the chutney, click the picture and serve the chutney during lunch/dinner. | 5 |