

**St. Mary's School, Dwarka**  
**Holiday Homework**  
**Class XII**  
**Subject: Biology**  
**Week 2**  
**Worksheet 2**

**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. What is sporopollenin?                                                             | 1 |
| Q2. Draw and label the important features of a pollen grain.                           | 2 |
| Q3. Define syngamy and triple fusion.                                                  | 2 |
| Q4. Name four agents of pollination.                                                   | 2 |
| Q5. Draw a well labelled diagram to show reproductive parts of a typical angiosperm.   | 3 |
| Q6. Develop a graphic organizer to show the various events of sexual reproduction.     | 3 |
| Q7. Explain the process of microsporogenesis with the help of a well labelled diagram. | 3 |
| Q8. With the help of labelled diagram explain the megasporogenesis in an angiosperm.   | 3 |
| Q9. Explain the formation and distribution of the eight cells in a female gametophyte. | 3 |
| Q10. What is pollination? Mention the different modes of pollination.                  | 3 |