

## HOLIDAY HOME WORK – SUMMER BREAK

### HOLIDAY HOME WORK

Subject: BIOLOGY - **CLASS XII B**

1. Arrange the following terms in the correct developmental sequence:  
Pollen grain, sporogenous tissue, microspore tetrad, pollen mother cell, male gametes.
2. With a neat diagram explain the 7-celled, 8-nucleate nature of the female gametophyte.
3. What are chasmogamous flowers? Can cross-pollination occur in cleistogamous flowers?  
Give reasons for your answer.
4. Mention two strategies evolved to prevent self-pollination in flowers.
5. What is self-incompatibility? Why does self-pollination not lead to seed formation in self-incompatible species?
6. What is bagging technique? How is it useful in a plant breeding programme?
7. What is triple fusion? Where and how does it take place? Name the nuclei involved in triple fusion.

### **CLASS XII D – BIOLOGY**

1. To select a suitable topic for CBSE investigatory project and collect information/ data about it. Prepare a draft report of the project.
2. Collect information and prepare note on
  - (a) Menstrual cycle in humans.
  - (b) Embryonic development in humans.
  - (c) Human evolution.