

Home Task 3 (Chapter 2: - Sexual Reproduction in Flowering Plants)

SUBJECT:- BIOLOGY (CLASS XII)

Teacher :- Preet Prakash (Phone: 7992384344)

Note: - Read the chapter carefully and answer the following questions. Kindly utilize your "Biology" class work copy to write down your answers. Make sure that you are consistent in doing your work as it will be evaluated as soon as the school re-opens. Use your pencil while drawing a diagram if required.

Q1. Define *Self-Pollination*. What are the *advantages of self-pollination*?

Q2. Explain in detail the *outbreeding devices* for promoting cross pollination.

Q3. Name the type of cross pollination based on the agencies.

- a. Wind-
- b. Water-
- c. Animal-
- d. Insect-
- e. Birds-
- f. Bats-

Q4. Mention two adaptations shown by *Entomophilous* and *Hydrophilous* plants.

Q5. (a) What do you understand by *pollen-pistil interaction*?

(b) Write short note on:

- i. *Recognition of compatible pollen*
- ii. *Growth of a pollen tube*
- iii. *Entry of pollen tube into the ovule*

Q6. Draw a well labeled diagram to show *the germination of pollen grain on stigma*.

Q7. Define:

- i. *Chalazogamy*
- ii. *Mesogamy*
- iii. *Porogamy*

Q8.

- a. Give a detailed account on "*Double fertilization*"(flowchart + description).
- b. Name the scientist who discovered it.
- c. Mention at least two significance of double fertilization.