

SEXUAL REPRODUCTION IN FLOWERING PLANTS

INTRODUCTION: Parents are requested to ensure that your ward spends two days to read and understand the topic and refers to the given text books and website given below.

Text Book: Nootan ISc Biology-Class XII, Nageen Prakashan

Website:

<https://www.toppr.com>

<https://www.byjus.com>

1. Choose the correct answer from the alternatives given below:
 - A. Which of the following is a triploid structure:
 - i. Microspore
 - ii. Megaspore
 - iii. Polar nuclei
 - iv. Endosperm
 - B. Which of the following is mismatched:
 - i. Anther----Microsporangia
 - ii. Pistil---Pollen grains
 - iii. Ovary---Fruit
 - iv. Ovule---Seeds
 - C. A flower with sepals, petals, stamens and carpels is said to be:
 - i. Complete
 - ii. Incomplete
 - iii. Actinomorphic
 - iv. Imperfect
 - D. Which of these is not a fruit:
 - i. Walnut
 - ii. Peach
 - iii. Cauliflower
 - iv. Pea
2. Define the following terms:
 - A. Geitonogamy
 - B. Polyembryony
 - C. Placentation
 - D. Triple fusion
3. Differentiate between the following pairs:
 - A. Embryo and endosperm
 - B. Mesogamy and porogamy
 - C. Parthenocarpy and parthenogenesis
 - D. Microsporogenesis and Microsporangium
4. Answer the following questions briefly:
 - A. What is double fertilization?
 - B. What are the disadvantages of self-pollination?

5. Give some contrivances for cross pollination.
6. What is an endosperm? Briefly describe various types of endosperm.
7. Describe the relative position of floral parts on the thalamus.
8. Draw well labelled diagrams of the following:
 - A. A mature anatropous ovule.
 - B. T.S. of a mature anther.
9. Expand the following:
 - A. RCH B. GTP C. TAA
 - D. NMEP E. GIFT
10. Give one significant contribution of the following scientists:
 - A. Alexander Fleming
 - B. P. Maheshwari
 - C. Chargaff
 - D. Karl Landsteiner

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