

BOARD-PATTERN PRACTICE PAPER · CBSE CLASS 12

Sexual Reproduction in Flowering Plants

Biology · Chapter 1 · Matches current CBSE blueprint · Each question PYQ-sourced where indicated

DATE	TOTAL MARKS	DURATION	MARKING	TARGET
_____	30	60 min	As per board	≥ 24/30

GENERAL INSTRUCTIONS

- All questions compulsory.
- Diagrams must be CLEARLY labeled (auto -0.5 if labels missing).
- State ploidy (n, 2n, 3n) wherever relevant.
- Use NCERT terminology (e.g., 'embryo sac' not 'female gametophyte' unless context demands).

Section A — VSA (1 mark × 4)

4 MARKS · 8 MIN

- Q1.** What is the ploidy of the primary endosperm nucleus? [PYQ 2018 All India] **[1 mark]**
- Q2.** Name the cell that gives rise to the embryo sac. [PYQ 2019 Delhi] **[1 mark]**
- Q3.** What is autogamy? [PYQ 2022 Outside Delhi] **[1 mark]**
- Q4.** Define apomixis. [PYQ 2023 Delhi] **[1 mark]**

Section B — SA-I (2 marks × 3)

6 MARKS · 12 MIN

- Q5.** Differentiate between geitonogamy and xenogamy. [PYQ 2019 Delhi] **[2 marks]**
- Q6.** Name two outbreeding devices and explain one. [PYQ 2022 Delhi] **[2 marks]**
- Q7.** List three differences between microsporogenesis and megasporogenesis. [PYQ 2020 All India] **[2 marks]**

Section C — SA-II (3 marks × 3)

9 MARKS · 20 MIN

- Q8.** Explain double fertilisation with the help of a diagram. [PYQ 2023 Delhi] **[3 marks]**
- Q9.** Draw a labeled diagram of a mature pollen grain. Mention any two functions of the tapetum. [PYQ 2020 Delhi] **[3 marks]**
- Q10.** Differentiate between apomixis and polyembryony with one example each. [PYQ 2018 Outside Delhi] **[3 marks]**

Section D — Long Answer (5 marks × 2)

11 MARKS · 20 MIN

- Q11.** Draw a labeled diagram of a mature embryo sac of a typical angiosperm. Identify the cells and state their ploidy and the number of nuclei. [PYQ 2024 Delhi] **[5 marks]**
- Q12.** Describe the development of dicot embryo from zygote to mature embryo with the help of suitable diagrams. [PYQ 2019 All India] **[6 marks]**

Marking scheme & model answers — see companion Answer Key PDF · all PYQs traceable to actual CBSE papers · readyforboards.com · +91 70330 05444