

Sexual Reproduction in Flowering Plants

NEET previous year questions · Biology

10 questions from the official papers: NEET 2026 (3), Re-NEET 2026 (4), NEET 2020 (3). Each is followed by its answer and a worked solution written by BrainIt. Generated on 23 October 2026.



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1. NEET 2026 · Q122

Arrange the following in the correct developmental sequence related to microsporogenesis.

Statement I: Microspore tetrads

Statement II: Sporogenous tissue

Statement III: Pollen grains

Statement IV: Pollen mother cells

Choose the correct answer from the options given below:

(1) IV, I, III, II (2) II, IV, I, III

(3) II, IV, III, I (4) I, IV, III, II

Answer (2)

Sol. Microsporogenesis begins with sporogenous tissue (Statement II), whose cells become pollen mother cells (Statement IV). Each pollen mother cell undergoes meiosis to form microspore tetrads (Statement I), which then separate into individual microspores that mature into pollen grains (Statement III). Hence the order is II, IV, I, III.

2. NEET 2026 · Q129

Which one of the following is a triploid cell?

(1) Synergid (2) Central cell

(3) Zygote (4) Primary endosperm cell

Answer (4)

Sol. The primary endosperm cell forms during double fertilisation when a haploid male gamete fuses with the diploid secondary (fusion) nucleus, making it triploid ($3n$). Synergids are haploid, the zygote is diploid, and the central cell before fusion carries two haploid polar nuclei.

3. NEET 2026 · Q130

Which one of the following types of pollination brings genetically different types of pollen grains to the stigma?

(1) Autogamy (2) Xenogamy

(3) Geitonogamy (4) Cleistogamy

Answer (2)

Sol. Xenogamy is cross-pollination in which pollen is transferred to the stigma of a flower on a genetically different plant, so it alone brings genetically different pollen. Autogamy (same flower) and geitonogamy (different flower of the same plant) deliver genetically identical pollen, and cleistogamous flowers are obligately autogamous.

4. Re-NEET 2026 · Q151

How many theca are present in each lobe of a typical bilobed angiosperm anther ?

(1) 2 (2) 6 (3) 8 (4) 12

Answer (1)

Sol. A typical angiosperm anther is bilobed, and each lobe contains two theca - the anther is therefore described as DITHECOUS. Since each theca houses one microsporangium, the whole anther has four microsporangia arranged at its corners, two per lobe. NCERT Class 12, Sexual Reproduction in Flowering Plants.

5. Re-NEET 2026 · Q154

Which of the following in female gametophyte of an angiosperm helps in guiding the pollen tube for fertilizing the eggs?

(1) Antipodals (2) Synergids

(3) Central cells (4) Polar nucleus

Answer (2)

Sol. The two synergids flank the egg at the micropylar end and bear the FILIFORM APPARATUS, a set of thickened cell wall projections that secrete chemical attractants and guide the pollen tube into the embryo sac. The pollen tube in fact enters one of the synergids, not the egg directly, and releases the two male gametes there. NCERT Class 12, Sexual Reproduction in Flowering Plants.

6. Re-NEET 2026 · Q155

Which of the following plants produces non-albuminous seeds?

- (1) Wheat (2) Maize (3) Barley (4) Pea

Answer (4)

Sol. Non-albuminous seeds lack endosperm at maturity because it is used up during embryo development. In pea, reserve food is stored in the cotyledons.

7. Re-NEET 2026 · Q156

If the diploid chromosome number of typical angiosperm is 36, what would be the chromosome number in its endosperm?

- (1) 18 (2) 36 (3) 54 (4) 72

Answer (3)

Sol. Endosperm arises by TRIPLE FUSION, in which one male gamete fuses with the two polar nuclei, so it is triploid. With $2n = 36$, the haploid number is $n = 18$ and the endosperm is $3n = 54$. The embryo, formed by the other male gamete fusing with the egg, remains diploid at 36. NCERT Class 12, Sexual Reproduction in Flowering Plants.

8. NEET 2020 · Q18

The body of the ovule is fused within the funicle at

- (1) Micropyle (2) Nucellus
(3) Chalaza (4) Hilum

Answer (4)

Sol. The body of the ovule is fused to the funicle at the hilum. Chapter: Sexual Reproduction in Flowering Plants.

9. NEET 2020 · Q54

In water hyacinth and water lily, pollination takes place by :

- (1) Water currents only (2) Wind and water
(3) Insects and water (4) Insects or wind

Answer (4)

Sol. The flowers of water hyacinth and water lily emerge above the water surface and are pollinated by insects or wind, not by water currents. Chapter: Sexual Reproduction in Flowering Plants.

10. NEET 2020 · Q68

The plant parts which consist of two generations - one within the other

Statement I: Pollen grains inside the anther

Statement II: Germinated pollen grain with two male gametes

Statement III: Seed inside the fruit

Statement IV: Embryo sac inside the ovule

- (1) (I), (II) and (III) (2) (III) and (IV)
(3) (I) and (IV) (4) (I) only

Answer (3)

Sol. Pollen grains inside the anther and embryo sac inside the ovule both consist of two generations, one within the other. Pollen grains contain microspores (haploid) and the embryo sac contains the female gametophyte (haploid) within the ovule (diploid). Chapter: Sexual Reproduction in Flowering Plants.

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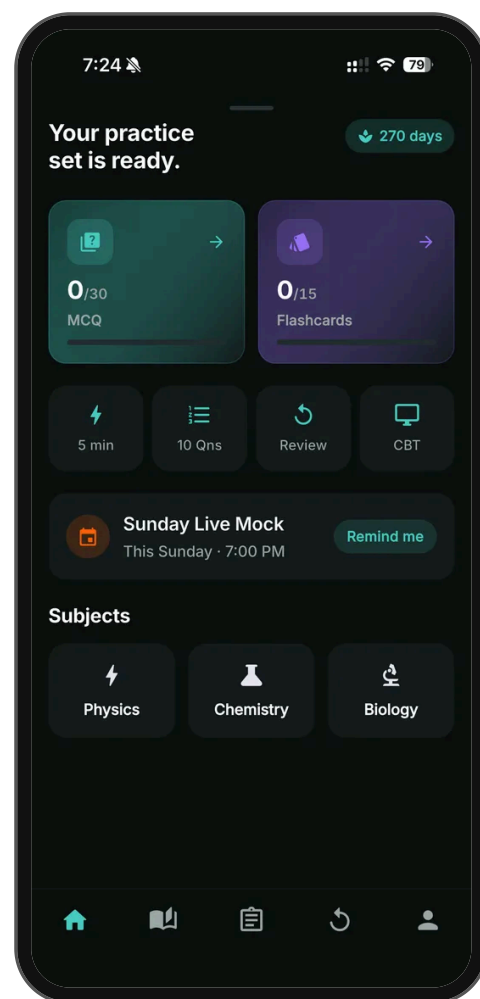
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