

The Process of Pollination and Fertilization in Angiosperms

Biology · Practice Test · 15 Questions

1. What is a ripe pollen grain considered?

- A) Female spore
- B) Male spore
- C) Egg cell
- D) Polar nucleus

2. Where does a pollen grain land during pollination?

- A) Ovary
- B) Ovule
- C) Stigma
- D) Embryo sac

3. What develops from a germinating pollen grain?

- A) Pollen tube and two male gametes
- B) Ovum and polar nuclei
- C) Stigma and style
- D) Embryo sac and ovule

4. What does the germinating pollen grain, containing two male gametes, represent?

- A) Female gametophyte
- B) Male gametophyte
- C) Pollen tube
- D) Ovule

5. Where does the pollen tube grow down into?

- A) Stigma
- B) Style
- C) Ovary
- D) Embryo sac

6. What does the pollen tube eventually penetrate to release the male gametes?

- A) Style
- B) Ovary
- C) Ovule
- D) Stigma

7. What does the embryo sac inside the ovule contain?

- A) Pollen tube and male gametes
- B) Ovum and two polar nuclei
- C) Stigma and style
- D) Ripe pollen grain

8. How many male gametes are released from the pollen tube?

- A) One
- B) Two
- C) Three
- D) Four

9. What does one male gamete fuse with in the embryo sac?

- A) Two polar nuclei
- B) Ovum
- C) Pollen tube
- D) Stigma

10. What do the two polar nuclei fuse with?

- A) Ovum
- B) One male gamete
- C) Pollen tube
- D) Stigma

11. What is the process of fertilization in Angiosperms?

- A) Pollen landing on stigma
- B) Pollen tube growing
- C) Fusion of gametes
- D) Pollen germination

12. What is the role of the stigma in pollination?

- A) To produce pollen
- B) To receive pollen
- C) To grow the pollen tube
- D) To store male gametes

13. What is the function of the pollen tube?

- A) To produce male gametes
- B) To transport male gametes to the ovule
- C) To receive pollen
- D) To develop into the ovule

14. What is the ovule's role in fertilization?

- A) To produce pollen
- B) To receive pollen
- C) To contain the embryo sac
- D) To grow the pollen tube

15. What is the embryo sac's primary role?

- A) To produce pollen
- B) To receive pollen
- C) To house the ovum and polar nuclei
- D) To grow the pollen tube