

# The Process of Pollination and Fertilization in Angiosperms

Biology · Answer Key · 15 Questions

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## 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