

Class-XII
BIOLOGY (044)
Chapter-2 (Sexual Reproduction in flowering plants)
ASSIGNMENT-2
(One mark)

1. Draw a diagram of a matured microspore of an angiosperm. Label its cellular Components.
2. Give an example of plant which came into India as a contaminant and is cause of Pollen allergy.
3. The microscopic pollen grains of the past are obtained as fossils. Mention the characteristics of the pollen grains that makes it happen.
4. State the function of filiform apparatus found in mature embryo sac of an angiosperm.
5. What is the function of germ pore?
6. What is funiculus?
7. In maximum angiosperms grains are shed at the two-celled stage. Name the 2 cells.
8. Why do pollen grains of some flowers trigger **sneezing** in some people?
9. What is the site of microsporogenesis?
10. What is the site of megasporogenesis?

(Two mark)

11. Differentiate between microsporogenesis and megasporogenesis. which type of cell division occurs during these events? Name the structure formed at the end of these two events.
12. With a neat, labeled diagram, describe the parts of atypical angiosperm ovule.
13. What is meant by monosporic development of a female gametophyte?
14. With a neat diagram and explain the 7-celled, 8-nucleate nature of the female gametophyte.
15. What are chasmogamous flowers? Can cross-pollination occur in cleistogamous flowers? Give reason for your answer.
16. Mention two strategies evolved to prevent self-pollination in flowers.
17. What is self-incompatibility? Why does self pollination not lead to seed formation in self-Compatibility species?
18. What is triple fusion? Where and how does it take place? Name the nuclei involved in triple Fusion.
19. Why do you think the zygote is dormant for sometime in a fertilized ovule?
20. Differentiate between:
 - (a) Hypocotyls and epicotyls
 - (b) Coleoptiles and coleorhizae
 - (c) Perisperm and pericarp

Books prescribed for class XII: NCERT TEXT BOOK, ncert.nic.in, e- Books are available on Diksha app. (www.cbse.ac.in)