



# BIOLOGY

## NCERT - NCERT BIOLOGY(HINGLISH)

### SEXUAL REPRODUCTION IN FLOWERING PLANTS

#### Sexual Reproduction In Flowering Plants

1. Name the parts of an angiosperm flower in which development of male and female

gametophyte take place.



**Watch Video Solution**

2. Differentiate between microsporogenesis and megasporogenesis. Which type of cell division occur during these events ? Name the structure formed at the end of these two events



**Watch Video Solution**

3. Arrange the following terms in the correct development sequence : Pollen grain, sporogenous tissue, microspore tetrad, pollen mother cell, male gametes.



[Watch Video Solution](#)

4. With a neat, labelled diagram, describe the parts of a typical angiosperm ovule.



[Watch Video Solution](#)

5. What is meant by monosporic development of female gametophyte?



**Watch Video Solution**

6. With a neat diagram explain the 7-celled, 8-nucleate nature of the female gametophyte.



**Watch Video Solution**

7. What are chasmogamous flowers ? Can cross-pollination occur in cleistogamous flower ? Give reasons for your answer ?



**Watch Video Solution**

8. Mention two strategies evolved to prevent self-pollination in flowers.



**Watch Video Solution**

**9.** What is self-incompatibility? Why does self-pollination not lead to seed formation in self-incompatible species?



**Watch Video Solution**

**10.** What is bagging technique? How is it useful in a plant breeding programme?



**Watch Video Solution**

**11.** What is triple fusion? Where and how does it take place? Name the nuclei involved in triple fusion.



**Watch Video Solution**

**12.** Why do you think the zygote is dormant for sometime in a fertilized ovule?



**Watch Video Solution**

**13.** Differentiate between:

(a) Hypocotyl and epicotyl,

(b) Coleoptile and coleorhiza,

(c) Integument and testa,

(d) Perisperm and pericarp.



**Watch Video Solution**

**14.** Why is apple called a false fruit? Which part(s) of the flower forms the fruit?



**Watch Video Solution**



**15.** What is meant by emasculation? When and why does a plant breeder employ this technique?



**Watch Video Solution**

**16.** If one can induce parthenocarpy through the application of growth substances, which fruits would you select to induce parthenocarpy and why?



**Watch Video Solution**

**17.** Explain the role of tapetum in the formation of pollen-grain wall .



**Watch Video Solution**

**18.** What is apomixis and what is its importance ?



**Watch Video Solution**