

Sexual Reproduction in Flowering Plants

CHAPTER-1

1. A plant which shows flowering at an interval of 12 years is-

- (a) Adansonia
- (b) Kygelia
- (c) Strobilanthes kunthiana
- (d) Bambusa Tulda
- (C)

2. Identify the mismatched pairs-

- (a) Microsporangium - anther
- (b) megasporangia - nucellus tissue
- (c) pollen - male gamete
- (d) embryo sac - female gametophyte

(c)

3. Which of the following plants is not a water-pollinated plant?

- (a) Zostera
- (b) Vallisneria
- (c) Hydrilla
- (d) Cannabis

(d)

4. _____ of the pollen grain divides to form two male gametes.

- (a) vegetative cell
- (b) reproductive cell
- (c) Microspore mother cell
- (d) none of the above
- (B)

5. The part of the gynoecium which determines the compatibility of the pollen grain is-

- (a) stigma

- (b) synergid
- (c) ovary
- (d) supporting cells
- (a)

6. 64 (Sixty four) How many microspore mother cells will participate in meiosis to form pollen grains?

- (a) 64
- (b) 32
- (c) 16
- (d) 8

(c)

7. During fertilization the embryo sac of a typical dicotyledonous plant is-

- (a) 8-cellular
- (b) 7-cellular
- (c) 6-cellular
- (d) 5-cellular

(B)

8. Discovery of double fertilization in Fritillaria and Lilium plants.

The scientists who did this were-

- (a) Navaschin (1898)
- (b) Strasbourger (1898)
- (c) Amici (1898)
- (d) Mendel (1898)

(a)

9. Endotrophic seeds are found in-

- (a) Castor (Ricinus communis)
- (b) Barley (Hordeum vulgare)
- (c) Coconut (Cocos nucifera)
- (d) all of the above

(d)

10. Permanent nucellus tissue is called_____ and it is present in_____ -

produced by parthenogenesis.

Short answer questions (only Questions)

1. Pollen particles show harmful effects. How?
2. Write the types and functions of the nutrient layer of microsporangium.
3. Explain double fertilization – triple fusion.
4. Write different types and examples of endosperm.
5. What is floriculture? Draw a labeled diagram of a typical stamen.
6. List the events before fertilization. Draw a labeled diagram of the structure of a polygonal embryo sac.
7. Show the various stages of dicotyledon embryo development using diagrams only.
8. Write the difference between semi-pollinated and semi-pollinated flowers.
9. Define pollination. Write the importance of pollination.
10. Show the essential and auxiliary cycles of a typical bisexual flower with a diagram.
11. Show the germinated pollen grain with a diagram.

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