

Class-12th- Test
SEXUAL REPRODUCTION IN FLOWERING PLANTS

M.M-35

TIME-1.5 HR

SECTION A

Multiple Choice Questions

[1X 10=10]

1. The edible part of coconut is:

- a) Pericarp b) Endosperm c) Cotyledon d) Seed coat

2. The pollen grain of most angiosperms is:

- a) 1-celled b) 2-celled c) 3-celled d) 4-celled

3. Tapetum is present in:

- a) Ovule b) Anther c) Ovary d) Style

4. Function of synergids:

- a) Nutrition b) Guidance of pollen tube c) Endosperm formation d) Protection

5. Double fertilization discovered by:

- a) Hooke b) Strasburger c) Nawaschin d) Mendel

6. Outermost layer of pollen grain:

- a) Intine b) Exine c) Nucleus d) Cytoplasm

7. Embryo sac is located in:

- a) Ovary b) Ovule c) Anther d) Style

8. Parthenocarpy results in:

- a) Seeds b) Seedless fruit c) Pollination d) Fertilization



9. Micropyle is:

- a) Opening of ovule b) Opening of anther c) Part of stigma d) Pollen part

10. Male gametes formed in:

- a) Ovule b) Embryo sac c) Pollen grain d) Ovary

SECTION – B

[2X3= 6]

11. What is pollination? Name its types.

12. What is self-incompatibility?

13. Define double fertilization.

SECTION-C

[3X 3= 9]

14. Structure of embryo sac.

15. Explain microsporogenesis.

16. What is apomixis?

SECTION-D

[5X1= 5]

17. Describe structure of anther (Draw diagram).

CASE STUDY

[1X5= 5]

18. Artificial hybridisation is one of the major approaches of crop improvement programme. In such crossing experiments it is important to make sure that only the desired pollen grains are used for pollination and the stigma is protected from contamination (from unwanted pollen). This is achieved by emasculation and bagging techniques.

Q. 1. Removal of anthers from a bisexual flower is called _____

- a) Emasculation
b) Selection
c) Bagging
d) Acclimatization



Q. 2. The events in artificial hybridization programmes which avoids unwanted cross pollination and self-pollination respectively-

- I. Bagging
 - II. Emasculation
 - III. Rebagging
 - IV. Artificial cross pollination
- a) I & II
 - b) II & I
 - c) IV & II
 - d) II & III

Q. 3. Bagging prevents _____

- a) Desired self pollination
- b) Undesired self pollination
- c) Desired cross pollination
- d) Undesired cross pollination

Q. 4. Which of the following is the correct sequence for artificial experiment in bisexual flowers?

- a) Self-pollination -> Bagging -> Emasculation -> Rebagging
- b) Cross pollination -> Bagging -> Emasculation -> Rebagging
- c) Emasculation -> Bagging -> Cross pollination -> Rebagging
- d) Bagging -> Emasculation -> Cross pollination -> Rebagging

Q.5. Mention the advantage & disadvantage of Artificial Hybridisation.

SM

