

BIO BOTANY
UNIT:1 REPRODUCTION IN PLANTS
2 MARKS

Class: 12

1. What is Reproduction? Mention its types.
2. What are called Clones?
3. What is Diaspores?
4. What are called Epiphyllous buds?
5. What is known as Plant Tissue Culture?
6. What is called Micropropagation?
7. Write any two advantages of Natural vegetative reproduction.
8. What is Layering? Give example.
9. Differentiate Grafting from Layering.
10. Define Totipotency.
11. What is Microsporogenesis?
12. What is Pollinium? Give example.
13. Write any two functions of Tapetum.
14. What is Stomium?
15. Write any two functions of Sporopollenin.
16. What is Cryopreservation? Write its uses.
17. What is Chalaza?
18. What is called as endothelium or Integumentary tapetum? Give example.
19. What is Homogamy? Give example.
20. What is amphitropous ovule? Give example.
21. Distinguish Tenuinucellate and Crassinucellate ovules.
22. What is Self-incompatibility? Give example.
23. What is Cantharaophily? Give example.
24. What is Mellitophily?
25. What is Malacophily? Give example.
26. Define Apomixis.
27. Define Agamospermy.

- 28. Define Apospory. Give example**
- 29. What is Adventive Polyembryony?**
- 30. What is Genetic parthenocarpy? Give example.**
- 31. Draw and label the parts of a Flower.**
- 32. Draw and label the structure of Ovule.**
- 33. Draw and label the structure of Embryo sac.**
- 34. Draw and label the Heart shaped embryo.**
- 35. Draw and label the structure of L.S of fruit of *Oryza sativa*.**

3 MARKS

- 1. Write a short note on Approach grafting.**
- 2. Distinguish Mound layering from Air layering.**
- 3. Discuss the steps involved in Microsporogenesis.**
- 4. Write a short note on Hetrostyly.**
- 5. Enumerate the characteristic feature of ornithophilous flowers.**
- 6. Draw and label the structure of T.S of Mature Anther of *Datura metal*.**
- 7. Differentiate Monoecious and Dioecious with examples.**
- 8. Differentiate Protoandry from Protogyny.**
- 9. Explain the Mechanism of Pollination in Maize.**
- 10. List out the functions of Endosperm.**
- 11. What is Apomixis? Explain its types.**
- 12. What is Polyembryony? Explain its types based on its origin.**
- 13. Differentiate diplospory from apospory.**
- 14. Write the significance of Parthenocarpy.**
- 15. Explain the development of Male gametophyte.**

5 MARKS

1. Give short notes on types of ovules.
2. What is endosperm? Explain the types.
3. Explain the development of a Dicot embryo.
4. With a suitable diagram explain the structure of an ovule.
5. Explain the structure of Dicot seed.
6. Give a detailed account on parthenocarpy. Add a note on its significance.
7. Explain the pollination mechanism in *Salvia*.
8. Explain the structure of T.S. of Mature anther.
9. Explain the monosporic development of Embryo sac.
10. Describe the structure of Monocot seed.

Prepared by
K.ARAVINDARAJ M.SC., B.Ed.,
Lecturer in Botany,
Prof.Annoussamy hr.sec.school,
Bahour, Puducherry.

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