

XII – BIO BOTANY**UNIT – VI: REPRODUCTION IN PLANTS****CHAPTER: 1 – ASEXUAL AND SEXUAL REPRODUCTION IN PLANTS****BOOK INSIDE ONE MARKS:**

1. _____ also plays an important role evolution. **Ans: Reproduction.**
2. Match the following:

I) Conidia	-	a) Yeast
II) Budding	-	b) Marchantia
III) Fragmentation	-	c) Aspergillus
IV) Gemmae	-	d) Spirogyra

Ans: I-c, II-a, III-d, IV- b.
3. Water hyacinth (Eichhornia crassipes) spread through **Ans: Offset.**
4. Match the following:

I) Bulbils	-	a) Centella asiatica
II) Sucker	-	b) Pistia
III) Offset	-	c) Chrysanthimum
IV) Runner	-	d) Agave

Ans: I-d, II-c, III-b, IV-a.
5. Rooted portion of grafting is called **Ans: Stock.**
6. External fertilization seen in **Ans: Algae.**
7. Pollinium is seen in **Ans: Calotropis.**
8. Tapetum is ____ origin **Ans: Dual.**
9. The size of microspore in Myosotis is **Ans: 10 micrometers**
10. Cryopreservation used liquid nitrogen for **Ans: - 196 °C.**
11. The study of honey pollen **Ans: Mellitopalynology.**
12. The microspore is the first cell of the **Ans: Male gametophyte (n)**
13. In 60% of the angiosperms pollen is liberated in **Ans: 2 celled stage.**
14. Horse shoe shaped nucellus seen in ____ ovule. **Ans: Amphitropus.**
15. Circinotrophous ovule seen in **Ans: Cactaceae**
16. Match the following (development of embryo sac)

I) Monosporic	-	a) Peperomia
II) Bisporic	-	b) Allium
III) Tetrasporic	-	c) Polygonum

Ans: I-c, II-b, III-a.
17. The first cell of embryo sac or female gametophyte is **Ans: Functional megaspore**
18. _____ secrete chemotropic substances that help to attract the pollen tube. **Ans: Synergids.**
19. Mature embryo sac contain **Ans: 7 cells and 8 nucleus.**
20. Pollination is the characteristic feature of **Ans: Spermatophytes.**
21. The stamens mature earlier than the stigma of the flower. **Ans: Protandry.**
22. Primula is the example of **Ans: Distyly.**
23. Maize (Zea mays) is _____. **Ans: Monoecious and unisexual.**
24. Maize long stigma is known as **Ans: Silk (23 cm)**
25. In water plants like Eichhornia and water lily pollination takes place through **Ans: Wind or insects [NEET-2020]**
26. Cleistogamous flowers no need for _____ in pollination. **Ans: Pollinators [NEET-2020]**
27. Vallisneria coiled stalk seen in ____ flowers. **Ans: Female**
28. Zoophily pollination well adapted by **Ans: Insects**
29. Pollination through bees are known as **Ans: Mellitophily**
30. Match the mechanisms and plants:

I) Trap	-	a) Aristolochia
II) Pit fall	-	b) Arum
III) Clip	-	c) Papilionaceae
IV) Piston	-	d) Asclepiadaceae

Ans: I-a, II-b, III-d, IV-c

31. Solid style, pollen tube pass through
32. Result of triple fusion to form
33. Persist calyx fully cover the fruits as in
34. Angiospermic endosperms are
35. Nuclear and cellular endosperm are seen in
36. It is a endospermous seed.
37. The funiculus disappears leaving a scar called
38. Coleoptile and coleorhiza produced by
39. The term apomixes was introduced by
40. Polyembryony was reported in certain
41. Antipodal polyembryony seen in
42. Fruits developed without fertilization is called

Ans: Intercellular space

Ans: Primary endosperm nucleus

Ans: Physalis minima

Ans: 3n [triploid]

Ans: Coconut

Ans: Wheat, maize, barley, sunflower.

Ans: Hilum

Ans: Monocot seed

Ans: Winkler [1908]

Ans: Orange

Ans: Ulmus

Ans: Parthenocarpy.

BOOK INSIDE TWO MARKS:

1. What is clone?
2. Define diaspores.
3. What is epiphyllous bud? Give an example.
4. What is grafting? Give an example.
5. Write the disadvantages of conventional method of vegetative reproduction.
6. Define microsporogenesis.
7. What is pollinium? Give an example.
8. Define stomium.
9. What is tapetum?
10. Define cryopreservation.
11. Define endothelium.
12. What is geitonogamy?
13. What is self-sterility?
14. What is epihydrophyly? Give an example.
15. Define malacophily.
16. What is cap block?
17. Define double fertilization.
18. Write the practical applications of polyembryony.
19. What is parthenocarpic fruits?
20. Write any two significance of parthenocarpy.

BOOK INSIDE THREE MARKS:

1. Write the advantages of natural vegetative reproduction.
2. What is layering? Mention its type.
3. Draw and label the parts of T.S mature anther.
4. Write the functions of tapetum.
5. Draw and label the parts of ovule.
6. Draw and label the parts of embryo sac.
7. What is rejection protein rejection?
8. Write the functions of endosperm.
9. Draw and label the parts of monocot seed [Oryza sativa]
10. Draw and label the parts of dicot seed [Cicer arietinum]

BOOK INSIDE FIVE MARKS:

1. Explain vegetative reproduction through root.
2. Explain grafting and its types.
3. Write the advantages of conventional method of vegetative method of reproduction.
4. Explain microsporogenesis.
5. Explain T.S of mature anther.
6. What is tapetum? Explain its types.
7. Write about development of male gametophyte.
8. Explain types of ovules.
9. Write the speciality of commelina plant.
10. Explain the characteristic feature of anemophily.
11. Explain the pollination in Zea mays.
12. Explain the pollination in vallisneria.
13. Explain lever mechanism.
14. Explain the types of pollen tube entry on ovule.
15. Explain double fertilization and triple fusion.
16. What is endosperm and explain its types.
17. Write about development of dicot embryo.
18. Explain the structure of dicot seed [Cicer arietinum]
19. Explain the structure of monocot seed [Oryza sativa]
20. Explain apomixes.
21. Explain polyembryony.
22. Explain parthenocarpy.

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