

Chapter- 1.

REPRODUCTION IN PLANTS.

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**Section A (One-mark questions)**

**1. Multiple Choice Questions:**

1. Pollen is produced in the:

1. Filament
2. Style
3. Pistil
4. Anther

2. Reproductive whorls of a flower are:

1. Stamens and carpels
2. Sepals and petals
3. Sepals and stamens
4. Petals and carpels

3. Grafting is a method of:

1. Artificial vegetative propagation
2. Sexual reproduction
3. Artificial pollination
4. Cross-pollination

4. Which one of the following is a false fruit?

1. Tomato
2. Apple
3. Potato
4. Pea

5. Write two ways in which pollination may occur in plants.

6. Name the three agents of pollination.

7. Give two features of flowers which favour pollination by insects.

8. Name two characteristics of flowers in which pollination occurs by wind.
  9. What is a 'false fruit'? Give one example:
  10. Name any three agencies for dispersal of seeds.
  11. Mention the common mode of reproduction found in (i) Amoeba (ii) Planaria.
  12. Name any two types of asexual reproduction.
  13. Define reproduction.
  14. Name two organisms that show asexual reproduction.
  15. How does Hydra reproduce? Name another organism that reproduces by a similar method.
  16. What is a spore?
  17. Name two plants which reproduce through spores.
  18. Which vegetative part is used in the propagation of Bryophyllum and mint?
  19. Name two types of layering.
  20. Name some plants where layering is used.
  21. Which technique would you use for propagating improved varieties of mango and rose?
  22. Name various types of asexual reproduction.
  23. Mention the reproductive parts of a flower.
  24. Define fertilisation.
  25. What is self-pollination?
  26. What is cross pollination?
  27. What are the agents of pollination?
  28. Which process results in formation of zygote?
  29. What grows to form a fruit?
  30. What is carpel?
  31. Which parts of the flower transform into the seed and fruit?
- Section B(Two marks questions)**
32. . How does binary fission in amoeba differ from binary fission in Leishmania?
  33. How will an organism be benefitted if it reproduces through spores?
  34. Can you think of reasons why more complex organisms cannot give rise to new individuals

through regeneration?

**36.** Why is vegetative propagation practised for growing some types of plants?

37. What is vegetative reproduction?

38. Briefly explain why a gardener prefers to grow certain plants vegetatively?

39. What are the advantages of sexual reproduction over asexual reproduction?

**40.** Differentiate between natural and artificial vegetative propagation.

**Section C (Three marks questions)**

**41.** What are the advantages of sexual reproduction over asexual reproduction?

**42.** What is asexual reproduction? Explain briefly various methods of asexual reproduction?

**43.** Draw and label the parts of a flower.

**44.** What are the functions of the following parts of a flower?

**45.** What is pollination?

**46.** What are the steps involved in fertilization and formation of seeds?

**47.** Draw the longitudinal section of pistil to show pollen grains' germination.

**48.** List the events after fertilization in an angiosperm that take place.

**Section D ( five marks questions)**

**49.** Why are budding, fragmentation and regeneration all considered as asexual types of reproduction? With neat diagrams explain the process of regeneration in *Planaria*.

**50.** Distinguish between pollination and fertilisation. Mention the site and product of fertilisation in a flower.

**51.** Draw a neat, labelled diagram of a pistil showing pollen tube growth and its entry into the ovule.

**52.** Draw the diagram of a flower and label the four whorls. Write the names of gamete producing organs in the flower.

**53.** (a) Give reason : Regeneration is not the same as Reproduction.

(b) State the mode of asexual reproduction in *Plasmodium*

54. a - Briefly explain why a gardener prefers to grow certain plants vegetatively?

b-What is advantages of sexual reproduction over asexual reproduction?

55. (a) What is vegetative propagation?

(b) Write any two advantages of practising this method.

56. (a) Out of the following plants which two plants are reproduced by vegetative propagation? jasmine, wheat, mustard, banana

(b) List any one advantage of practising this kind of propagation.

57. (a) Identify the asexual method of reproduction in each of the following organisms : (i) rose

(ii) yeast (iii) *planaria*

(b) What is fragmentation? Name a multicellular organism which reproduces by this method.

