

I. Choose the correct answer: (5x1=5)

1. Asexual reproduction in yeast is _____
a)Spore formation b)Fragmentation c)Pollination d)Budding
2. Pollinators are _____
a)Wind b)Water c)Insect d)All the above
3. Vegetative propagation by leaves takes place in _____
a)Bryophyllum b)Fungi c)Virus d)Bacteria
4. Climbing roots are seen in _____
a)Betel b)Black pepper c)Both of them d)None of them
5. The leaves are reduced to _____ in Opuntia
a)Spines b)Tendrils c)Phyllode d)Trap

II.Fill in the blanks: (5x1=5)

6. The male reproductive part of a flower is _____
7. Breathing roots are seen in _____
8. Onion and garlic are examples of _____
9. There are _____ types of underground stems
10. Male gamete fuses with the female gamete to form _____

III. Match the following: (5x1=5)

- | | |
|------------|-------------------|
| 11. Fern | -Attracts insects |
| 12. Hooks | -Spore |
| 13. Petal | -Taproot |
| 14. Sucker | - Bignonia |
| 15.Turnip | - Chrysanthemum |

IV. Write True or False (5x1=5)

16. The transfer of pollen to the stigma is known as pollination.
17. Ginger is an underground root.
18. A complete flower has four whorls.
19. Leaves of Aloe vera are fleshy and store water.
20. Fungi reproduce by spore formation.

V. Assertion and reasoning: (2x2 $\frac{1}{2}$ =5)

21. Assertion : Pollination and fertilization in flowers produces fruits and seeds

Reason : After fertilization, the ovary becomes fruit and ovule becomes seed.

- a) Assertion is correct, Reasoning is incorrect.
- b) Assertion is incorrect, Reasoning is correct.
- c) Assertion is correct, Reasoning is correct.
- d) Assertion is incorrect, Reasoning is incorrect.

22. Assertion : The example of conical root is correct

Reason : It is an adventitious root modification

- a) Assertion is incorrect, Reasoning is correct.
- b) Assertion is incorrect, Reasoning is incorrect.
- c) Assertion is correct, Reasoning is correct.
- d) Assertion is correct, Reasoning is incorrect.

VI. Very short answers: (10x1=10)

23. Which is the reproductive part of a plant?
24. Which becomes seed after fertilization?
25. Write two types of reproduction in plants.
26. Give examples for a) Tuber b) Corn
27. What is the basal swollen part of gynoecium called?
28. What are the two important parts of a flower?
29. Define pollination.
30. Give an example for conical shaped root.
31. Name the plant that traps and eats insects.
32. What are breathing roots also called?

VII. Picture based questions. (2x2 $\frac{1}{2}$ =5)

33. Draw a neat labeled diagram of the “Parts of a Flower”
34. Observe the following diagram and label any three parts.

VIII. Short answers (Any eight) (8x2 $\frac{1}{2}$ =20)

Question number 43 is compulsory.

35. Write a short note on unisexual flower
36. What is Tendril?
37. What are the agents of pollination?
38. Write notes on phyllode.
39. What are thorns?
40. Write a short note on bisexual flower
41. What is cross pollination?
42. Write short notes on “Post Fertilization Changes”
43. Define Fertilization
44. What is the reproduction? Explain its types.
45. Write a short note on phylloclade.

IX. Answer any three of the following: (3x5=15)

46. Write a brief account on pollination.
47. a) Explain the underground stem.
b) Write a short note on Rhizome
48. Explain the following:
a) Corn b) Tuber c) Bulb
49. Explain the roots for mechanical support
50. Explain the following:
a) Spines b) Traps