

Junior Inter Botany Model Paper

PAPER - I

Time: 3 Hours Max. Marks: 60

SECTION - A

Note: Answer all questions. Each answer may be limited to 5 lines.

(10 × 2 = 20)

1. What is flora?
2. What do the terms phycobiont and mycobiont signify?
3. Name the four classes of Pteridophyta with one example each.
4. Differentiate between Racemose and Cymose inflorescences.
5. Differentiate between Apocarpous and Syncarpous ovary.
6. What is Geocarpy? Name the plant which exhibits this phenomenon.
7. What is the significance of vacuole in a plant cell?
8. Explain the zwitterionic form of an amino acid.
9. An anther has 1200 pollen grains. How many pollen mother cells must have been there to produce them?
10. Define population and community.

SECTION - B

Note: Answer any six questions. Answer may be limited to 20 lines.

(6 × 4 = 24)

11. Give salient features and importance of Chrysophytes.
12. What is heterospory? Briefly comment on its significance. Give two examples.
13. List the changes observed in angiosperm flower subsequent to pollination and fertilization.
14. Describe the non-essential floral parts of plants belonging to Fabaceae.
15. Give a brief account of type of chromosomes based on their position of centromere.
16. Nucleic acids exhibit secondary structure. Describe through Watson-Crick model.
17. State the location and function of different types of meristems.
18. What are hydrophytes? Briefly discuss the different kinds of hydrophytes with examples.

SECTION - C

(2 × 8 = 16)

Note:

Answer any two questions. Answer may be limited to 60 lines

19. Explain how stem is modified variously to perform different functions.
20. Draw the diagram of a microsporangium and label its wall layers. Write briefly about the wall layers.
21. Describe the internal structure of dorsiventral leaf with the help of labelled diagram.