

Bpc 1st year. - 2025-26

Sub: Botany. v. Important Q.



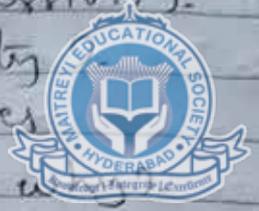
I very short Answer Type Questions.

1. What does ICBN stands for?
2. What is flora?
3. What is systematic?
4. Give the scientific name of mango? Identify the generic and specific epithet?
5. Name two diseases caused by mycoplasmas?
6. How are viroids differ from viruses?
7. What is the nature of cell wall in diatoms?
8. What is palaeobotany? What is its use?
9. Who are herbalist? What are the books written by them?
10. What is the morphology of cup like structure in cyathium? In which family it is found?
11. What is meant by epipetalous condition? Give an example?
12. What are aggregate fruits? Give two examples?
13. Define placentation. What type of placentation is found in Dianthus?
14. What is self incompatibility?
15. What is meant by scutellum? In which type of seeds is it present?
16. Define with examples endospermic and non endospermic seeds?
17. What is omega taxonomy?
18. Write the floral formula of Solanum plant?
19. Name the type of pollination mechanism found in members of Fabaceae?
20. What is geocarpy? Name the plant which exhibits this phenomenon?



21. What is the floral formula of Solanum plant?
22. Give the technical description of anther of Allium cepa?
23. What is the significance of vacuole in a cell?
24. What does 'S' refer in a 70S and 80S ribosome?
25. What are gas vacuole? State their function?
26. What is the function of a polysome?
27. What is the feature of a metacentric chromosome?
28. What is referred to as a satellite chromosome?
29. Which part of the bacterial cell is target in gram staining?
30. What is middle lamella made of?
31. What is osmosis?
32. Give one example for each of amino acids, sugar, nucleotides and fatty acid.
33. Explain the zwitterionic form of an amino acid?
34. Which of the phases of the cell cycle is of longest duration?
35. Given that the average duplication time of E. coli is 20 minutes. How much time will two E. coli cells takes to become 32 cells?
36. What attributes does a chromatid require to be classified as a chromosome?
37. If a tissue has at a given time 10^{24} cells. How many cycles of mitosis had the original parental single cell undergone?
38. An anther has 1200 pollen grains? How many pollen mother cells must have been there to produce them?
39. At what stage of cell cycle does DNA synthesis occur?
40. Name the stage of meiosis in which actual reduction in chromosome number occurs?

41. Give any two examples of xeric succession?
42. Define population and community?
43. Define. Heliophytes and sciophytes?
44. Hyelrophytes shows reduced xylem?



Short Answer Type Questions.

1. Explain Binomial nomenclature?
2. Write the role of fungi in our daily life?
3. Give a brief account of Dinoflagellates?
4. Explain in brief the scope of Botany in relation to agriculture, horticulture and medicine?
5. Give a brief account of pathallus?
6. What is heterospory? Briefly comment on its significance? Give two examples?
7. Differentiate between red algae and brown algae?
8. Discuss the various types of pollen tube entry into ovary with the help of diagram?
9. Describe the essential organs of Solanaceae?
10. Describe the cell organelle which contain chlorophyll pigment?
11. Describe the structure of nucleus?
12. Nucleic acid exhibits secondary structure justify with example?
13. Explain prophase - I of meiosis I?
14. "Though redundantly described as a resting phase interphase does not really involve rest". Comment.
15. Write a brief account on classification of hyelrophytes and xerophytes.
16. List out the morphological and anatomical adaptations of xerophytes and Hyelrophytes.

Long Answer Type Questions:



1. Explain different type of Placosome in flower?
2. Define root modification? Explain how root is modified to perform different functions?
3. Draw the diagram of a microsporangium and label its wall layers? write briefly about wall layers?
4. Draw a neat, labelled diagram of the parts of a mature angiosperm embryo sac. mention the role of synergids?
5. Describe the characteristics of plants belonging to Fabaceae and Liliaceae.
6. Describe the T.S of a dicot stem?

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