

BOARD OF INTERMEDIATE EDUCATION (AP)
HALF YEARLY EXAMINATIONS - 2021
JUNIOR INTER BOTANY
MODEL PAPER (English Version)

Time: 3 Hours

Max.Marks: 60

SECTION - A

Note: i) Answer All questions.

ii) Each answer may be limited to 5 lines.

10 × 2 = 20

1. Give the scientific name of mango. Identify the generic name and specific epithet.
2. What is the basic unit of classification? Define it.
3. What do the terms Phycobiont and Mycobiont, signify.
4. What do the terms Algal bloom and Red tides, signify.
5. Who proposed five kingdom classification? How many kingdoms of this classification contain eukaryotes?
6. Who are herbalists? What are the books written by them?
7. Who is popularly known as father of Botany? What is the book written by him?
8. Name the two books written by Parasara and mention the important aspects discussed in those books.
9. What is the morphology of cup like structure in cyathium? In which family it is found?
10. What is meant by epipetalous condition? Give an example.

SECTION - B

Note: i) Answer any Six questions.

ii) Each answer may be limited to 20 lines. Draw diagrams wherever necessary.

6 × 4 = 24

11. What are the characteristic features of Euglenoids?
12. Give the salient features and importance of Chrysophytes.
13. What is heterospory? Briefly comment on its significance. Give two examples.
14. Give a brief account of Prothallus.
15. Differentiate between Liverworts and Mosses.
16. Discuss the various types of pollen tube entry into ovary with the help of diagram.
17. What is triple fusion? Where and how does it takes place? Name the nuclei involved in triple fusion.
18. What is meant by emasculation? When and why does a plant breeder employ this technique?

SECTION - C

Note: i) Answer any Two questions.

ii) Each answer may be limited to 60 lines. Draw labeled diagrams.

2 × 8 = 16

19. Define Root. Mention the types of root systems. Explain how root is modified to perform different functions.
20. Explain how stem is modified variously to perform different functions.
21. With a neat labelled diagram describe the parts of a mature angiosperm embryo sac. Mention the role of synergids.

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