

B. Sc. DEGREE END SEMESTER EXAMINATION - OCT. 2020 : JANUARY 2021
SEMESTER 3 : COMPLEMENTARY BOTANY FOR B Sc ZOOLOGY
COURSE : 19U3CPBOT3 : ANGIOSPERM TAXONOMY AND ECONOMIC BOTANY
(For Regular - 2019 Admission)

Time : Three Hours

Max. Marks: 60

PART A

Answer All (1 mark each)

1. Cite two examples of spices which contain aromatic essential oils.
2. Name the alkaloid present in coffee.
3. What is the botanical name of Cardamom?
4. Give the botanical name of brahmi.
5. What is bilabiate corolla?
6. What is a caryopsis?
7. Name the family of rain tree.
8. Provide binomial of any economically important species from the family Annonaceae.

(1 x 8 = 8)

PART B

Answer any 6 (2 marks each)

9. Spices and condiments are called "food adjuncts". Why?
10. Give four orchid varieties of high commercial value grown in Kerala.
11. What are the important features of phylogenetic system of classification?
12. Expand ICBN and ICN.
13. What is chemotaxonomy? What are the different characters used in this system?
14. Write any four merits of Bentham and Hooker's system of classification.
15. What is sagittate anther?
16. Differentiate catkin and spike inflorescences.

(2 x 6 = 12)

PART C

Answer any 4 (5 marks each)

17. Write an appraisal of the Indian Cotton Industry.
18. Discuss the properties and benefits of the medicinal plant, *Phyllanthus amarus*.
19. List out the importance and significance of herbarium?
20. Evaluate the advanced features of Asteraceae.
21. What is a fleshy fruit? Explain the structure of a typical fleshy fruit. Name different types of fleshy fruits.
22. Write briefly about the floral characters of the family Apiaceae.

(5 x 4 = 20)

PART D

Answer any 2 (10 marks each)

23. Construct an agricultural plan for Kerala State which is profitable and workable, taking into account various geo-climatic conditions. Suggest the best crops for each climatic and geographical conditions.

OR

24. Write an essay on different types of Dry, Multiple and Aggregate fruits. Draw labelled diagrams with examples for each type.

25. Elaborate and explain the general characters of Poaceae. Draw the flower L.S.

OR

26. Compare the floral features of the families Fabaceae, Caesalpiniaceae and Mimosaceae.

(10 x 2 = 20)