

Reg. No

Name

20P3008

M. Sc DEGREE END SEMESTER EXAMINATION - OCT/NOV 2020: JAN 2021

SEMESTER 3 : BOTANY

COURSE : 16P3BOTT09 : TAXONOMY OF ANGIOSPERMS

(For Regular - 2019 Admission and Supplementary - 2016/2017/2018 Admissions)

Time : Three Hours

Max. Marks: 75

PART A

Answer any 8 (2 marks each)

1. Critically evaluate the arrangement of flowering plant families by Engler and Prantl.
2. Write short notes on Flora and Manual.
3. What are the advantages of e-Flora? Give examples of any two e-Flora.
4. Give the systematic position of (a) *Drymaria cordata* (b) *Hedychium venestum*
5. Give the systematic position of (a) *Evodia lunu-ankenda* (b) *Gymnema sylvestre*.
6. Write a short note on the economic importance of Rosaceae.
7. What are the major contributions of S.K Jain in ethnobotanical studies?
8. Define modular theory.
9. Give the systematic position of (a) *Thumbergia alata* (b) *Terminalia bellerica*
10. Write short note on the androecium and gynoecium of Boraginaceae.
11. Write short note on the androecium and gynoecium of Orchidaceae.
12. Write short note on the androecium and gynoecium of Musaceae.

(2 x 8 = 16)

PART B

Answer any 7 (5 marks each)

13. What are the merits and demerits of Bentham and Hooker's system?
14. Briefly explain the Engler and Prantl's system of classification.
15. Write a short note on the major botanical gardens of the World.
16. What is Multiaccess key? Explain.
17. Briefly describe the floral features of Menispermaceae.
18. Explain the economic importance of Brassicaceae.
19. Give an account on various indices used for ethnobotanical studies.
20. What are the major selective pressures that resulted in the evolution of specialized types of flowers?
21. With the help of suitable diagrams, briefly describe the floral features of Asclepiadaceae.
22. Explain the economic importance of Zingiberaceae.

(5 x 7 = 35)

PART C

Answer any 2 (12 marks each)

23. Give a critical evaluation of the system of classification of angiosperm by C.E. Bessey and compare it with that of Bentham and Hooker's Classification.

OR

24. Explain the scope and importance of ethnobotany with suitable examples.
25. Write a comparative account on the floral features of Apocynaceae and Asclepiadaceae. Explain with suitable diagrams.

OR

26. Adnation, Connation and Reduction are the three major evolutionary forces acted on Angiosperms to attain diversity. Explain with suitable examples.

(12 x 2 = 24)