

Reg. No

Name

M. Sc DEGREE END SEMESTER EXAMINATION - OCTOBER 2019**SEMESTER 3 : BOTANY****COURSE : 16P3BOTT09 : TAXONOMY OF ANGIOSPERMS***(For Regular - 2018 Admission and Supplementary - 2016/2017 Admissions)*

Time : Three Hours

Max. Marks: 75

Section A**Answer any 8 (2 marks each)**

1. Critically evaluate the arrangement of flowering plant families by Engler and Prantl.
2. What is Multiaccess key?
3. Write a short note on TAXON.
4. Write a short note on the androecium and gynoecium of Tiliaceae.
5. What is stylopodium?
6. Give the systematic position of (a) *Coldenia procumbens* (b) *Coelogyne odoratissima*
7. What are the major contributions of S.K Jain in ethnobotanical studies?
8. Briefly explain how apocarpy and syncarpy are exemplified in the evolution of angiosperm carpel.
9. Give the systematic position of (a) *Ichnocarpus frutescens* (b) *Glochidion tomentosum*
10. Give the systematic position of (a) *Andrographis paniculata* (b) *Syzygium travencoricum*
11. Write short note on the androecium and gynoecium of Aristolochiaceae.
12. Write short note on the economic importance of Liliaceae.

(2 x 8 = 16)

Section B**Answer any 7 (5 marks each)**

13. Write the Bentham and Hooker's system of classification up to series.
14. What are the merits and demerits of APG system?
15. What are the primary and secondary activities of BSI?
16. With an example, explain bracketed key.
17. Discuss the evolutionary trends in Thalamiflorae.
18. With the help of suitable diagrams, describe the floral features of Myrtaceae.
19. Give an account on various indices used for ethnobotanical studies.
20. Explain the apomorphies of flowering plants.
21. With the help of suitable diagrams, briefly describe the floral features of Scrophulariaceae.
22. Herbaceous habit is considered to be advanced than tree habit. Do you agree with this? Why?

(5 x 7 = 35)

Section C**Answer any 2 (12 marks each)**

23. Explain the classification proposed by Angiosperm Phylogeny Group and give an outline of APG III.

OR

24. Discuss the significance of ethnobotanical studies citing one suitable example from Kerala.
25. Write a comparative account on the floral features of Verbenaceae and Lamiaceae. 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)