

MSc DEGREE EXAMINATION OCTOBER 2015

SEMESTER: 3, SUBJECT: BOTANY

COURSE: P3BOTT12 –TAXONOMY OF ANGIOSPERMS

Time: Three Hours

Max. Marks: 75

I. Answer **any eight** questions briefly; each question carries **2 marks**

1. Write a brief note on major taxonomic Indices.
2. Comment on the significant features of Revisions and Monographs
3. Write brief note on the salient features of Eudicots?
4. Comment on the pollinium of Asclepiadaceae.
5. Write a short note on the classification scheme by Linnaeus.
6. Write a brief account on the composition of APG.
7. Write a short note on a major Botanical garden in Kerala.
8. Highlight the major contributions of Southern Regional Centre of Botanical Survey of India
9. Discuss the ethnobotanical perspectives of *Hortus Malabaricus*.
10. Write the binomial and family of (a) *Arogya pacha*, (b) *Arayal patra*, (c) *Alpam*, (d) *Manjatti* (*Manjishta*)
11. Write binomial and products of four economically significant members of Apiaceae.
12. Write the binomial and family of (a) Cumin, (b) Mangosteen, (c) Chicory, (d) Cowpea

(8 x 2 = 16)

II. Answer **any seven** questions; each question carries **5 marks**

13. Discuss the significance of ethnobotanical studies citing one example from Kerala.
14. Write a note on taxonomic keys.
15. Write a note on the salient features of Bessey's classification scheme.
16. Comment on the basal angiosperms.
17. Write a note on the significance of Herbarium.
18. Write a short note on the salient floral features of Zingiberaceae.
19. Write a note on the salient features of Loranthaceae.
20. Make a comparative account of major features of Malvaceae and Tiliaceae.
21. Provide a comparative account on the floral features of Cyperaceae and Poaceae.
22. Discuss the systematic position of Euphorbiaceae with respect to APG classification system.

(5 x 7 = 35)

III. Answer **any two** questions; each question carries **12 marks**

23. Write an account on the diversity of form and structure of Orchidaceae. Discuss its systematic position with respect to Bentham & Hooker and APG classification systems.

OR

24. Make a comparative account of Asclepiadaceae and Apocynaceae. Discuss their systematic position in the light of APG system.

25. Discuss the diversity of floral features of families Fabaceae, Caesalpiniaceae and Mimosaceae.

OR

26. Discuss the concept of primitiveness in Angiosperms as reflected in classification schemes of Bentham & Hooker, Takhtajan and APG classification.

(12 x 2 = 24)