



Reg. No.:

Name :

Second Semester M.Sc. Degree Examination, October 2018
Branch : Botany
BO 221 : TAXONOMY OF ANGIOSPERMS, ECONOMIC BOTANY,
ETHNOBOTANY AND EVOLUTION
(2013 Admission Onwards)

Time : 3 Hours

Max. Marks : 75

I. Write note on the following.

- 1) Index Kewensis.
- 2) National Botanical Garden.
- 3) Nomen novum.
- 4) Bracketed taxonomic key.
- 5) Syntype.
- 6) Hortus sicuss.
- 7) Index Herbariorum.
- 8) Contributions of Janaki Ammal.
- 9) Sympatric speciation.
- 10) Write the centre of origin and binomial of
 - a) Maize
 - b) Cinchona
 - c) Opium
 - d) Cocoa

(10×1=10 Marks)

II. Answer the following questions in **not** more than **50** words.

- 11) a) Explain the concepts of monophyly, polyphyly and paraphyly.

OR

- b) What is Biosystematics. Explain two examples highlighting the significance of it.

P.T.O.



12) a) Discuss the salient features of APG classification.

OR

b) Write a note on monographs and revisions.

13) a) Write a short note on the salient floral features of Araceae.

OR

b) Comment on the salient features of Commelinaceae.

14) a) What are the major rules of naming hybrids ?

OR

b) Briefly discuss the history and development of the Botanical code.

15) a) Comment on the progress in concepts of evolution.

OR

b) Comment on concepts of evolution above species level.

(5×2=10 Marks)

III. Answer the following questions in **not** more than **150** words.

16) a) Explain Lectopification citing one example.

OR

b) Discuss the trend of floral evolution in Orchidaceae.

17) a) Write a note on the salient features of Takhtajan's classification scheme.

OR

b) Write on the major changes made in the code in the recent period. Discuss their impacts.

18) a) Discuss the salient features and systematic position of Asteraceae.

OR

b) Discuss the concepts of Family.

19) a) Discuss the significance of Chemotaxonomy, citing two examples.

OR

b) Discuss the salient features of Ranunculaceae in the light of modern phylogenetic concepts.



- 20) a) Make a comparative account of salient features of Poaceae and Cyperaceae.

OR

- b) Discuss the trends in the systematic position of Euphorbiaceae.

- 21) a) Write the binomial, family, part used, major products and uses of the following :

- 1) Pepper
- 2) Rose wood
- 3) Cannabis.
- 4) Sword bean.
- 5) Brinjal.

OR

- b) Write the binomial, family, part used, major products and uses of the following :

- 1) Vinca
- 2) Teak wood
- 3) Cardamom
- 4) Cashew nut
- 5) Citrus.

- 22) a) Discuss the history and development of ethnobotanical documentation in India.

OR

- b) Comment on ethnobotanical aspects of five plants used by ethnic groups of Kerala. **(7×5=35 Marks)**

IV. Answer the following questions in **not** more than **250** words.

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

OR

- b) Discuss the diversity of floral features and phylogenetic inter relations of Leguminosae.

- 24) a) Discuss the major concepts of Molecular evolution.

OR

- b) Discuss the progress in the concepts of speciation.

(2×10=20 Marks)
