

D 91703

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Name.....02.....

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2015

(CUCSS)

Botany

BO 03 CT 10—ANGIOSPERM MORPHOLOGY, TAXONOMY AND PLANT RESOURCES

Time : Three Hours

Maximum : 36 Weightage

I. Answer all the *fourteen* questions very briefly :

- 1 Explain the concept of species.
- 2 What is a polynomial ?
- 3 What are millets ? Give an example.
- 4 Write the botanical name of Liquorize.
- 5 Comment on essentialism.
- 6 What is author citation ?
- 7 What is phylogeny ?
- 8 Explain the role of nectaries.
- 9 What are the different types of aestivation ?
- 10 Enlist the advanced characters of an angiosperm flower.
- 11 Explain monophyly.
- 12 What are infra specific categories ?
- 13 Explain effective publication.
- 14 Differentiate analytical and synthetic characters.

(14 × 1 = 14 weightage)

II. Answer any *seven* questions in not more than 100 words :

- 15 Briefly explain the origin of carpels.
- 16 Explain cladistics with a suitable example.
- 17 What are the major provisions of International Code of Botanical Nomenclature ?
- 18 What is floral anatomy ?
- 19 Write the binomial, family and morphology of useful parts of two oil yielding plants.
- 20 Give the botanical names, family and morphology of economic parts of any *two* non-alcoholic beverages.

Turn over

- 21 Explain the role of DNA bar coding in plant identification and classification.
- 22 Mention the medicinal importance of sweet flag.
- 23 Differentiate artificial and natural classifications.
- 24 Explain the evolution of flower in relation to pollinators.

(7 × 2 = 14 weightage)

III. Answer any *two* questions in 300 words each :

- 25 What is plant classification ? Explain Bentham and Hooker's classification of plants with special mention on its merits and demerits.
- 26 Write an account of numerical taxonomy.
- 27 Describe the theories that explain the origin of angiosperms.
- 28 Explain chemotaxonomy and its role in plant classification.

(2 × 4 = 8 weightage)