

D 70915

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Name.....

Reg. No.....

**THIRD SEMESTER M.Sc. DEGREE (REGULAR) EXAMINATION
NOVEMBER 2019**

Botany

BO 03 CT10—ANGIOSPERM MORPHOLOGY, TAXONOMY AND PLANT RESOURCES

Time : Three Hours

Maximum : 36 Weightage

I. Answer the questions briefly :

- 1 Name a fumigant approved by environment protection agency for use in herbaria.
- 2 What are dubia ?
- 3 Name two major herbaria of India.
- 4 What is meant by a monograph ?
- 5 Give the binomial of Bengal gram.
- 6 Mention the morphology of useful part in Coco.
- 7 Nomen dubium.
- 8 Gonophyll theory.
- 9 Sympleiomorphy.
- 10 Phenograms.
- 11 Consistency index.
- 12 Paleoherbs.
- 13 Lectotype.
- 14 Give the binomial of fennel.

(14 × 1 = 14 weightage)

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

- 15 Distinguish between syntype and paratype.
- 16 Any two principles of numerical taxonomy.
- 17 Comment on the principle of parsimony.
- 18 Anthostrobilus theory of angiosperm origin.
- 19 Phenogram.
- 20 Write shortly on the roles of botanical gardens.

Turn over

- 21 Write the botanical names and families of two starch yielding plants.
- 22 Pharmacognostic properties of wood apple and nux vomica.
- 23 Write short notes on biosystematics.
- 24 Principle component analysis in taximetrics.

(7 × 2 = 14 weightage)

III Answer any *two* questions in not more than 300 words :

- 25 Explain how taximetrics can be effectively employed in plant systematic.
- 26 Give an elaborate account of the origin and evolution of carpels in angiosperms.
- 27 Describe the chemical and pharmacognostic properties along with the botanical details of any five medicinal plants.
- 28 Give a critical evaluation on the natural and phylogenetic systems of classifications.

(2 × 10 = 20 weightage)