

D 6824

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Name.....

Reg. No.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2016

(CUCSS)

Botany

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

Time : Three Hours

Maximum : 36 Weightage

I. Answer the questions briefly :

- 1 What is meant by Nominalistic species concept ?
- 2 What is Typification ?
- 3 Give the definition of Monophyly.
- 4 Define Convergence.
- 5 Name an important botanical garden at Italy.
- 6 Give the binomial of a sugar yielding plant.
- 7 Give the botanical name and family of Para rubber.
- 8 Give the binomial of liquorize.
- 9 Write down any two points related to the relevance of BSI.
- 10 Define OTUs.
- 11 What is meant by Essentialism ?
- 12 Outline the relevance of Phenetics.
- 13 Define inferior ovary.
- 14 Artificial classificatory system.

(14 × 1 = 14 weightage)

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

- 15 Explain the foliar origin of carpels.
- 16 Comment on the role of cladistics in plant taxonomy.
- 17 Briefly describe the infraspecific categories.
- 18 Comment on numerical taxonomy. What is its application in systematic ?
- 19 Give a brief note on DNA bar coding in plants.
- 20 Write short account regarding regional and national herbaria of India.
- 21 Give the binomial of nux vomica and wood apple.

Turn over

- 22 Comment on plants used as beverages with suitable examples.
- 23 Give the binomial of two pulses.
- 24 Distinguish between plesiomorphic and apomorphic characters.

(7 × 2 = 14 weightage)

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

- 25 Elaborate the role of botanical gardens in taxonomic studies with special emphasis on the famous national and international botanical gardens.
- 26 Critically evaluate the new trends in plant taxonomic studies. How far they are effective in resolving the taxonomic puzzles.
- 27 Explain the origin and evolution of carpels in angiosperms.
- 28 Describe the economic importance of spices and condiments. Give their commercial name, binomial, family and morphology of useful parts.

(2 × 4 = 8 weightage)