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 x 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 x 2 = 14 weightage)

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

25 Elaborate the role of botanical gardens in taxonomic 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 x 4 = 8 weightage)