



Fifth Semester B.Sc. Degree Examination, November/December 2016
BOTANY – V (Old Syllabus)
Paper: 5.1 – Morphology, Taxonomy, Economic Botany and Resource Management

Time : 3 Hours

Max. Marks : 80

I. Answer the following :

(15×1=15)

- 1) What type of venation is found in Monocot leaves ?
- 2) Expand ICBN.
- 3) What are stilt roots ?
- 4) Name the family having Jaculaters.
- 5) Write the systematic position of cotton.
- 6) What is gynobasic style ?
- 7) What type of fruit is Tomato ?
- 8) Name the family having Sagitate anthers.
- 9) What are dichlamydeous flowers ?
- 10) Give the function of root hair.
- 11) Name the two insectivorous plants.
- 12) What is placentation ?
- 13) Name the family having Tetradynamous stamens.
- 14) Write the Botanical name of clove.
- 15) Which agency helps in the dispersal of fruits and seeds in coconut ?

II. Answer **any five** of the following :

(5×5=25)

- 16) Explain the principles of International Code of Botanical Nomenclature.
- 17) Write the salient features of family Brassicaceae.
- 18) What is Aestivation ? Describe the different types with suitable examples.

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- 19) Write the floral diagram and floral formula of the family Malvaceae.
- 20) What is Systematic Botany ? Give the scope and objectives of systematic Botany.
- 21) Assign the plants to their respective families. Give their botanical names and add a note on their economic importance.
 - a) Rubber
 - b) Castor
 - c) Lemon
 - d) Quinine
- 22) Write a note on herbarium and its purposes.

III. Answer **any four** of the following :

(4×10=40)

- 23) Outline the system of classification of Bentham and Hookers; add a note on their merits and demerits.
 - 24) With help of neat labeled diagram, describe the structure of L.S of typical Angiospermic root. <https://www.vskub.com>
 - 25) Assign the following genera to their respective families and add note on their economic importance.
 - a) *Arachis hypogea*
 - b) *Gossypium arboreum*
 - c) *Tectona grandis*
 - d) *Saccharum officinarum*.
 - 26) Describe the salient features of Angiosperms.
 - 27) Give the Botanical names of five essential oil yielding plants. Give uses of these oils.
 - 28) Describe the distinguishing features of LABIATAE. Mention the economic importance of the family.
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