

2022

BOTANY

[GENERIC]

(B.Sc. Second Semester End Examination-2022)

PAPER-GE2T

Full Marks: 40

Time: 02 Hrs

*The figures in the right hand margin indicate marks
Candidates are required to give their answers in their own words as
far as practicable
Illustrate the answers wherever necessary*

1. Answer any five questions: 5x2=10
 - a. Differentiate systematics and taxonomy.
 - b. what is alpha and beta taxonomy?
 - c. Define biosystematics. who first introduced the term taxonomy.
 - d. Who is the father of Modern taxonomy? Name a book written by him.
 - e. What is endemism?
 - f. Mention two anatomical adaptation of hydrophytes.
 - g. What is lacto type.
 - h. What do you mean by phylogenetic system of classification?

2. Answer any four of the followings: 4x5=20
 - a. Write the principles of ICN. What is holotype 4+1

(2)

- h. Write down the importance of herbarium. Name the largest Herbarium of the world. 4+1
- i. What is soil profile? Write down the different layers of soil 1+4
- j. Define ecological pyramid of number and ecological pyramid of biomass with diagram (2.5+2.5)
- k. What do you mean by effective publication? Write the conditions for a valid publication of a new taxa. 2+3
- l. What are the different types of Phytogeographical regions in India? 5

3. Answer any one question:

1x10=10

- a. Give an outline of natural system of classification given by George Bentham and J.D Hooker. Mention its merits and demerits. 6+2+2
- b. What do you mean by biogeochemical cycle? Draw the schematic representative of phosphorus cycle by flow chart. What is denitrification? 2+6+2