

2022

( February )

BOTANY

( Elective/Honours )

( Angiosperm Taxonomy, Economic Botany,  
Ethnobotany and Phytogeography )

( Theory )

( BOT-ELH-301 )

Marks : 56

Time : 3 hours

*The figures in the margin indicate full marks  
for the questions*

Answer Question No. **1** which is compulsory  
and *any* **four** from the rest, selecting **one**  
from each Section

1. Write notes on the following : 4×4=16
- (a) Rules of priority
  - (b) Spikelets of Poaceae
  - (c) Processing of rubber
  - (d) Satpura hypothesis

( 2 )

SECTION—I

2. Give an account of Hutchinson's system of classification. Mention the merits and demerits of the system. 7+3=10
3. (a) What is botanical nomenclature? State the principles of botanical nomenclature as per ICN. 2+3=5
- (b) What is a nomenclatural type? Describe different 'types' used in botanical nomenclature. 2+3=5

SECTION—II

4. Describe the distinguishing features of the family Lamiaceae with its floral diagram and floral formula. Mention the botanical names of three economically important plants of the family. 5+1+1+3=10
5. With suitable diagrams, discuss the structural features of flowers of Orchidaceae. Why is Orchidaceae considered as highly evolved among monocotyledons? 7+3=10

( 3 )

SECTION—III

6. Write explanatory notes on cultivation and processing of tea. 5+5=10
7. What is ethnobotany? Discuss its relevance in the present-day world. Describe the ethnobotanical uses of three plant species of North-East India having food value. 1+3+6=10

SECTION—IV

8. Describe the floristic regions of India. 10
9. Describe in detail the centres of origin of cultivated plants as proposed by Vavilov. 10

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