2020

BOTANY (Honours)

Paper : BOTH-DC-5

(CBCS)

Full Marks : 25 Time : Two Hours

The figures in the margin indicate full marks.
Candidates are required to give their answers in their own words as far as practicable.

1. Answer any *five* questions of the following : 1×5=5

   (i) Define 'plant systematics'.

   (ii) Where is the Central National Herbarium of India located?

   (iii) What is the difference between 'Flora' and 'Monograph'?

   (iv) State two limitations of principle of priority.

   (v) What are conserved names? Give an example.

   (vi) Define the terms 'taxon' and 'taxonomic hierarchy'.

   (vii) Explain the author citations of the following binomials :

   (a) *Cicuta bulbifera* (L.) Spreng.

   (b) *Andropogon aromaticus* Sieber. ex Schult.

   (viii) What do you understand by a 'paraphyletic group'?

2. Answer any *four* questions of the following : 3×4=12

   (i) Write the governing principles of ICN (ICBN).

   (ii) Discuss in brief the importance of herbarium? Give an example. 2+1

(iii) What was the basis of the classification proposed by Linnaeus in 1753? What were the main demerits of this system of classification? 1+2

(iv) Discuss in brief the concept of origin and evolution of angiosperms.

(v) Discuss in brief the nomenclatural types recognized by ICN (ICBN).

(vi) Discuss the economic importance of the families Orchidaceae.

3. Answer any *one* question of the following : 8×1=8

(i) Discuss in brief the characteristic features of the family Asteraceae. What are the advance characters, alternate name and the type genus for this family? 4+2+1+1

(ii) Discuss in brief the outline of classification as proposed by Bentham and Hooker. What are the demerits of this classification? 6+2