

Total Page - 3

UG/4th Sem/BOT/19

2019

B.Sc. (Hons.)

4th Semester Examination

BOTANY

Paper - C10T

Plant Systematics

Full Marks : 40

Time : 2 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 :

5×2=10

- (a) What is taxonomic hierarchy?
- (b) Define Flora & Vegetation.
- (c) Difference between bracketed key and indented key.
- (d) Define co-evolution.

[Turn Over]

- (e) Mention two demerits of AGP III system of classification.
- (f) Difference between Holotype and Lectotype.
- (g) What is called "Adansonian Taxonomy"?
- (h) Define cladistics and clade.

2. Answer any *four* of the following : 4×5=20

- (a) Discuss about primitive and advanced characters used in taxonomic study. 2½+2½
- (b) Discuss about the role of palynology in solving Taxonomic problems. 5
- (c) Mention role of Botanical garden and herbarium in taxonomic study. 2½+2½
- (d) What is Author's citation? Cite examples with the uses of "et al" and "ex". 1+2+2
- (e) State the principles of ICN. 5
- (f) Define convergence and parallelism with suitable examples. 2½+2½

3. Answer any *one* questions of the following :

1×10=10

- (a) Give an outline of Bentham & Hooker's system of classification upto series. Write Differences between phylogenetic system of classification with that of Natural system of classification. 8+2
- (b) Write Notes on : (any two) 5×2
- i) Numerical taxonomy.
 - ii) Angiosperm Phylogeny Group (APG III) classification;
 - iii) Origin of Angiosperms.
-