

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.

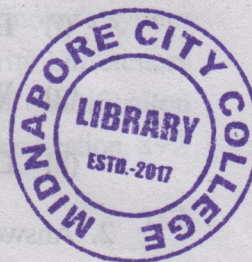
*Candidates are required to give their answers
in their own words as far as practicable.*

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]



(2)

(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 : $4 \times 5 = 20$

(a) Discuss about primitive and advanced characters used in taxonomic study. $2\frac{1}{2} + 2\frac{1}{2}$

(b) Discuss about the role of palynology in solving Taxonomic problems. 5

(c) Mention role of Botanical garden and herbarium in taxonomic study. $2\frac{1}{2} + 2\frac{1}{2}$

(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. $2\frac{1}{2} + 2\frac{1}{2}$

(3)

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

$1 \times 10 = 10$

(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.