

Total Page - 4

PG/2nd Sem/BOT/19

2019

M.Sc.

2nd Semester Examination

**BOTANY**

Paper - BOT 201

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.*

Use separate script for separate units.

**201.1**

**(Taxonomy)**

**[20 Marks]**

1. Answer any *two* questions from the following :

2×2=4

(a) Define Eudicots.

(b) Which family is now considered as the most primitive one according to APG System ?

*[ Turn Over ]*

(c) What is apomorphy ? Give an example.

(d) Name the country where latest International Botanical Congress was held.

2. Write the differences of any *two* of the following :

4×2=8

(a) Flora and Revision;

(b) Lectotype and Syntype;

(c) Paraphyly and Holophyly; and

(d) ICBN and ICN.

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

8×1=8

(a) Characterize the subclass Magnoliidae. Comment on the systematic status of this taxon and mention its plesiomorphic characters. 4+2+2

(b) Define herbarium. Write the basic differences between traditional and digital herbaria. Name two important Indian herbaria and two important herbaria of the World with their acronyms.

2+2+2+2

( 3 )

201.2

(Biosystematics)

[20 Marks]

1. Answer any *two* questions from the following :

2×2=4

- (a) What is Taxonomic marker ? Give one example.
- (b) What is invasive species ? Cite an example.
- (c) Mention the contribution of Camp and Gilly (1934) in biosystematic studies.
- (d) Name the hotspots of India.

5. Write short notes on any *two* of the following :

4×2=8

- (a) Numerical taxonomy;
- (b) Chemotaxonomy of Caryophyllidae;
- (c) Steps of biosystematic studies;
- (d) Loss of biodiversity in India.

[ Turn Over ]

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

(a) What is cyto-taxonomy ? Discuss with two examples how chromosome parametres can be used to resolve taxonomic disputes. 2+6

(b) Define ethnobotany. Mention the branches of ethnobotany. Write the role of ethnomedicine in human welfare. 2+3+3

---