

3/BOT-201 (Th) Syllabus-2023

2024

(December)

FYUP : 3rd Semester Examination

MAJOR

BOTANY

(Angiosperm Taxonomy)

BOT-201

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**, selecting **one** from each Section

1. Write notes on the following : $4 \times 4 = 16$

- (a) Binomial nomenclature
- (b) APG IV system of plant classification
- (c) Pollinium in Orchidaceae
- (d) Rules of priority

D25/970

(Turn Over)

SECTION—I

2. Write a note on taxonomic hierarchy and explain the taxonomic concept of genus and species. $4+6=10$
3. What are taxonomic keys? Explain the single- and multi-access keys. $2+4+4=10$

SECTION—II

4. Give an account of Bentham and Hooker's system of classification of plants with its merits and demerits. 10
5. Explain the differences among holotype, isotype, paratype and neotype. $2\frac{1}{2}\times 4=10$

SECTION—III

6. Describe the distinguishing features of the family Solanaceae with floral diagram and floral formula. State the botanical names and uses of three economically important plants of the family. $5+1+1+3=10$
7. Describe the salient features with floral diagram and floral formula of the family Poaceae. Mention the botanical names and uses of three economically important plants of the family. $5+1+1+3=10$

(3)

SECTION—IV

8. What is a herbarium? Explain the method of preparation of herbarium specimen sheets and discuss the importance of herbarium.

2+6+2=10

9. Write notes on the following :

5+5=10

- (a) Nomenclature rules for cultivated plants
- (b) Economic importance of Asteraceae family

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Marks : 56

Time : 3 hours

The spaces in the margin indicate full marks for the questions

Answer Question No. 2 which is compulsory and any four, selecting one from each Section

1. Write notes on the following : (4×10=40)

- (a) Binomial nomenclature
- (b) APG IV system of plant classification
- (c) Polonium in Orchidaceae
- (d) Index of priority