

3/BOT-201 (Th) Syllabus-2023

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(Nov-Dec)

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 : 4×4=16

- (a) Contribution of Linnaeus in the field of taxonomy
- (b) Economic importance of Fabaceae
- (c) Holotype and Paratype
- (d) Inflorescence of Poaceae

26D/623

(Turn Over)

(2)

SECTION—I

2. Define taxonomic keys and provide a logical step-by-step process to differentiate between organisms based on their characteristics.
4+6=10
3. Discuss the concept of taxonomic hierarchy in biological classification and explain with examples, how a species is the fundamental unit of hierarchical system.
5+5=10

SECTION—II

4. Give an account of John Hutchinson's system of classification of angiosperms with its merits and demerits.
7+3=10
5. Write notes on the following :
5+5=10
 - (a) Broad outline of ICN
 - (b) APG IV system of plant classification

SECTION—III

6. Describe the salient features of the family Asteraceae with floral diagrams and floral formula. State the botanical names and uses of three economically important plants of the family.
5+1+1+3=10

(3)

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

SECTION—IV

8. State the 'principles of priority'. Discuss the significance of 'rules of priority' in providing stability to plant nomenclature and state its limitations with examples. $3+4+3=10$
9. Give brief accounts of the following : $5+5=10$
- (a) Important herbaria of India
 - (b) Methods of preparation of herbarium specimen sheets
