

# **3/BOT-201 (Th) Syllabus-2023**

**2 0 2 4**

( 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 :** **4×4=16**

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

( 2 )

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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