

**3/EH-62 (iii) (Syllabus-2015)**

**2022**

**( November )**

**BOTANY**

**( Elective/Honours )**

**[ BOT-ELH-301 (T) ]**

**( Angiosperm Taxonomy, Economic Botany,  
Ethnobotany and Phytogeography )**

*Marks : 56*

*Time : 3 hours*

*The figures in the margin indicate full marks  
for the questions*

**Answer Question No. 1 which is compulsory  
and **four** questions, selecting  
**one** from each Section**

**1. Write notes on the following : 4×4=16**

- (a)* Artificial system of plant classification
- (b)* Diagnostic features of Asteraceae
- (c)* Wood characteristics and uses of teak
- (d)* Continental drift theory

( 2 )

**SECTION—I**

2. Give an account of plant classification as proposed by Bentham and Hooker. Mention the merits and demerits of this system.  $6+2+2=10$
3. Write notes on the following :  $5 \times 2 = 10$
- (a) Rules of priority and its limitations
- (b) Typification

**SECTION—II**

4. Enumerate the diagnostic characters of the family Fabaceae. Give the floral formula and draw the floral diagram. Mention the botanical names of three economically important plants belonging to this family.  $5+1+1+3=10$
5. Describe the distinguishing features of the family Liliaceae with the floral formula and floral diagram. Write the botanical names of three economically important plants belonging to this family.  $5+1+1+3=10$

**SECTION—III**

6. Give the scientific names, families, parts used and uses of the following :
- (a) Three ethnobotanical plants of N-E India having medicinal properties  $2 \times 3 = 6$
- (b) Two economically important spices  $2 \times 2 = 4$

( 3 )

7. Describe the following in brief :  $5 \times 2 = 10$
- (a) Cultivation and uses of *Citronella*
- (b) Processing and uses of rubber

**SECTION—IV**

8. Explain in detail the centre of origin of cultivated plants. 10
9. Write explanatory notes on the following :  $5 \times 2 = 10$
- (a) Barriers of plant migration
- (b) Eastern Himalaya's floristic region

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