

**Bankura University**  
**B.Sc. 4<sup>th</sup> Semester (Honours )Examination, 2022**  
**Subject: Botany**

**Course ID: 41313**

**Paper: SHBOT/ 403/C-10**

**Course Title: Plant Systematics**

**Full Marks: 25**

**Time: 1h 15 mins**

**UNIT I**

**1. Answer *any five* of the following:**

**1x5=5**

- (a) Who coined the term 'taxon' in plant taxonomy?
- (b) what is e-flora?
- (c) What are sementide molecules?
- (d) What do you mean by cladogram?
- (e) What are nomenclatural types?
- (f) What is polyphyly?
- (g) Name one rubber yielding plant of Euphorbiaceae.

**UNIT II**

**2. Answer *any two* of the following:**

**5x2=10**

- (a) State the importance of herbaria in taxonomic studies. What is arboretum? 3+2
- (b) Point out the diagnostic features of Liliaceae. Name one climber of this family. 4+1
- (c) Compare the androecia of Malvaceae and Asclepiadaceae. Name two medicinally important plants from each family. 3+2=5
- (d) What do you mean by illegitimate name? Write any four situations which leads to the rejection of a name. 1+4=5

**UNIT III**

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

**10x1=10**

- (a) Mention the characteristic features of the family Orchidaceae. Draw its floral diagram. Why is the family considered most advanced among monocotyledons? 4+2+4
- (b) Give a brief outline of Takhtajan's classification(1997) upto subclasses. Write two merits of APG III classification. 8+2=10