REV-01
MSB/06/10

2025/11

SET A

M.Sc. BOTANY
THIRD SEMESTER
ANGIOSPERM TAXONOMY
MSB-303(C)

[USE OMR FOR OBJECTIVE PART]

Duration: 1.30 hrs. **Full Marks: 35**

Objective

Time: 15 min. **Marks: 10**

Choose the correct answer from the following: *1X10=10*

1. Which of these is the most advanced phylogenetically among the monocotyledonous families?
   a. Scrophulariaceae
   b Acanthaceae
   c. Umbelliferae
   d Orchidaceae

2. Binomial nomenclature means writing the name of plants in two words designate
   a. Order and family
   b. Family and genus
   c. Species and variety
   d. Genus and species

3. Labellum in Orchidaceae comes to anterior side by the twisting of the ovary through 180°. This process is called
   a. Adnation
   b. Articulation
   c. Resurpination
   d. Attenuation

4. Modern classification is based on
   a. Physiology
   b. Fossil
   c. Phylogeny
   d. Morphology

5. Botanical Garden provides
   a. Natural habitat for wild life
   b. In-situ conservation
   c. In-situ conservation
   d. All above

6. Herbarium sheet provides the information of
   a. Family of plant
   b. Collector's name
   c. Local, English and botanical name
   d. All of these

7. A systematic concept of the plant species of a given area called
   a. Flora
   b. Documentation
   c. Manual
   d. None

8. This is the floral formula of $\oplus\, \varphi\, K_{(3)}\, C_{(3)}\, A_{1}\, G_{\overline{(3)\,or\,(2)}}$.
   a. Poaceae
   b. Zingiberaceae
   c. Cyperaceae
   d. Orchidaceae

9. The family Asteraceae is characterised by the infloroscence
   a. Scorpiod cyme
   b. Helicoid cyme
   c. Capitulum
   d. Cyathium

10. Which of the following is false about floral formula ?
   a. Indefinite number of floral parts is shown with the help of infinity symbol '∞'
   b. K5 means there are five sepals, polysepalous
   c. Calyx is denoted with the letter 'C'
   d. A2+2 means 4, 2 whorls

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(Descriptive)

Time : 1 hrs. 15 min. **Marks : 25**

[Answer question no.1 & any two (2) from the rest]

1. Define Binomial Nomenclature. Mention 4 important rules of Binomial Nomenclature **1+4=5**

2. Write a comparative account of Artificial, Natural and Phylogenetic classification system. **10**

3. Define Floral diagram and Floral formula. Mention the Floral diagram and Floral formula of Lamiaceae and Zingiberaceae. **4+6=10**

4. Write in brief about Cyperaceae or Asteraceae mentioning it's economic importance. **7+3=10**

5. Which family is most advanced phylogenetically among monocots? Why the family is regarded as highest evolved among the dicotyledons. **2+8=10**

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