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

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 1hr. 30 mins.

Time: 15 mins.

Objective

Choose the correct answer from the following:

1×10=10

2023/12

SET

Full Marks: 35

Marks: 10

1. Which of these is the most advanced phylogenetically among the dicotyledonous families?

a. Scrophulariaceae

b. Acanthaceae d. Compositae

c. Umbelliferae

Binomial nomenclature means writing the name of plants in two words designate:

a. Order and family c. Species and variety b. Family and genus d. Genus and species

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

Modern classification is based on:

a. Physiology

b. Fossil

c. Phylogeny

d. Morphology

Botanical Garden provides:

a. Natural habitat for wild life

b. In-situ conservation

c. In-situ conservation

d. All above

The eastern regional circle BSI is situated at:

a. Arunachal Pradesh

b. Shillong

c. Mizoram

d. Sikkim

7. A systematic concept of the plant species of a given area called:

a. Flora

b. Documentation

c. Manual

d. None

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This is the floral formula of:

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a. Poaceae

b. Zingiberaceae

c. Cyperaceae

d. Orchidaceae

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- 9. The family Lamiaceae is characterised by the inflorescence:
 - a. Scorpiod cymec. Verticellaster

b. Helicoid cyme

d. Cyathium

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

$\left(\underline{\text{Descriptive}} \right)$

Marks: 25 Time: 1 hr. 15 mins. [Answer question no.1 & any two (2) from the rest] 1+4=5 1. Define Binomial Nomenclature. Mention four important rules of Binomial Nomenclature. 10 Write a comparative account of Artificial, Natural and Phylogenetic classification system. 4+6=10 Define Floral diagram and Floral formula. Mention the Floral diagram and Floral formula of Lamiaceae and Zingiberaceae. 7+3=10 4. Write in brief about Orchidaceae or Poaceae mentioning its economic importance. Which family is most advanced phylogenetically among dicots? Why 2+8=10 the family is regarded as highest evolved among the dicotyledons?

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