

**M.Sc. BOTANY
FOURTH SEMESTER
ANGIOSPERM TAXONOMY
MSB-402 C**
[USE OMR SHEET FOR OBJECTIVE PART]

**SET
A**

Duration: 3 hrs.

Full Marks: 70

(Objective)

Time: 30 mins.

Marks: 20

Choose the correct answer from the following:

1 × 20 = 20

- Those species of plants and animals that are found exclusively in a particular area are termed:
 - Endemic
 - Endangered
 - Fauna
 - Flora
- Which among the following is the correct order of classification?
 - Kingdom, Phylum, Genus, Division, Order, Class, Species, Family
 - Phylum, Division, Class, Order, Genus, Species, Family, Kingdom
 - Kingdom, Division, Class, Order, Family, Genus, Species
 - Division, Genus, Family, Species, Class, Order, Kingdom, Phylum
- The plants found in a particular area are termed as:
 - Flora
 - Fauna
 - Species
 - All of the above
- Which year marked birth of modern system of biological nomenclature?
 - 1753
 - 1857
 - 1757
 - 1854
- The Lamiaceae family is commonly known as the:
 - Aster family
 - Grass family
 - Mint family
 - Spiderwort family
- The newly collected specimen which is used as a substitute, when the original type material is missing in a herbarium, is designated as:
 - Lectotype
 - Holotype
 - Neotype
 - Isotype
- Which of the following system of classification was used by Linnaeus?
 - Phylogenetic system
 - Natural system
 - Artificial system
 - Asexual system
- When two or more authors publish a new species or propose a new name, their names are linked using the epithet?
 - in
 - ex
 - et
 - emend
- Gynoecium of Magnoliaceae is:
 - Apocarpous
 - Monocarpellary
 - Syncarpous
 - Polycarpellary

1. Botanical name of Gram is:
 - a. *Phaseolus aureus*
 - b. *Phaseolus mungo*
 - c. *Cicer arietinum*
 - d. *Cajanus cajan*
2. Fruit is legume in family:
 - a. Fabaceae
 - b. Asteraceae
 - c. Poaceae
 - d. Solanaceae
3. Size of herbarium sheet standard is:
 - a. 31.25 x 28.75 cm
 - b. 21.25 x 28.75 cms
 - c. 28.25 x 28.75 cms
 - d. 41.25 x 28.75 cms
4. Which among the following states has a maximum area in the forest in India?
 - a. Kerala
 - b. Assam
 - c. Tamil Nadu
 - d. Madhya Pradesh
5. How many types of forest are distinguished by Champion and Seth (1968) in North East India?
 - a. 53
 - b. 51
 - c. 50
 - d. 55
6. Phyllode is present in:
 - a. Asparagus
 - b. Opuntia
 - c. Australian Acacia
 - d. Euphorbia
7. Vexillary aestivation is characteristic of the family:
 - a. Fabaceae
 - b. Solanaceae
 - c. Brassicaceae
 - d. Asteraceae
8. Inflorescence of family Asteraceae is:
 - a. Verticillaster
 - b. Cyathium
 - c. Catkin
 - d. Capitulum
9. Largest dicot family is:
 - a. Fabaceae
 - b. Solanaceae
 - c. Lamiaceae
 - d. Asteraceae
10. Botanical Garden provides:
 - a. Ex-situ conservation
 - b. Natural habitat for wild life
 - c. In-situ conservation
 - d. All of the above
11. The Indian Botanical Garden and National Botanical Research Institute are located at:
 - a. Pune and Howrah
 - b. Howrah and Lucknow
 - c. Darjeeling and Lucknow
 - d. Shimla and Dehradun

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(Descriptive)

Time : 2 hr. 30 mins.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

1. Define Binomial Nomenclature. Write about principles and rules of nomenclature. 2+8=10
 2. Define forest. Describe forest types and forest flora of North East India. 2+8=10
 3. Write a short note on Botanical Garden. Name two important Botanical Gardens of India. 8+2=10
 4. Write a comparative account on Magnoliaceae and Ranunculaceae. 10
 5. Write distinguishing characters, floral formula and floral diagram of Zingiberaceae. 4+3+3=10
 6. What is Herbarium? Write in details about Herbarium techniques and functions of Herbarium. 2+5+3=10
 7. Write a brief about Modern trends in taxonomy. 10
 8. Describe Natural system of classification proposed by Bentham and Hooker. Mention merits and demerits. 8+2=10
- Or
- Describe in details about Artificial system of classification proposed by Carolus Linnaeus. Mention merits and demerits.

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