

M.Sc. BOTANY
THIRD SEMESTER
ANGIOSPERM TAXONOMY
MSB-304 C

**SET
A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 1hr. 30 mins.

Full Marks: 35

Time: 15 mins.

(Objective)

Marks: 10

Choose the correct answer from the following:

1×10=10

1. What is the term for a plant that completes its life cycle in one growing season?
 - a. Perennial
 - b. Biennial
 - c. Annual
 - d. Deciduous
2. Pick the right sequence of taxonomic categories.
 - a. Division-class-family-tribe-order-genus-species
 - b. Division-class-order-family-tribe-genus-species
 - c. Division-order-class-family-genus-tribe-species
 - d. Division-class-family-order-tribe-genus-species
3. Phyllotaxy is:
 - a. Folding leaf in the bud
 - b. Arrangement of leaves on the stem
 - c. Both a and b
 - d. None
4. Which of the following category are NOT in the IUCN classification of threatened species?
 - a. Near Threatened
 - b. Harmful
 - c. Vulnerable
 - d. Endangered
5. Hotspots are regions of high:
 - a. Endemism
 - b. Diversity
 - c. Rarity
 - d. Endangered population
6. In which phytogeographical region can you find the famous Valley of Flowers National Park?
 - a. Western Ghats
 - b. Eastern Ghats
 - c. Deccan Plateau
 - d. Trans-Himalayas
7. A species that spreads rapidly and outcompetes native species for resources is termed:
 - a. Endangered species
 - b. Introduced species
 - c. Invasive species
 - d. Extinct species
8. The Father of Taxonomy is:
 - a. Theophrastus
 - b. Bentham and Hooker
 - c. Carolus Linnaeus
 - d. Hutchinson

9. According to IUCN *Nepenthes khasiana* is a:
- | | |
|--------------------------|---------------|
| a. Critically Endangered | b. Endangered |
| c. Least concern | d. Vulnerable |
10. How many biodiversity hotspots are located in India?
- | | |
|------|------|
| a. 8 | b. 2 |
| c. 6 | d. 4 |

(Descriptive)

Time : 1 hr. 15 mins.

Marks : 25

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

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|---|----------|
| 1. Define phytogeographical regions and explain the phytogeographical regions of India. | 1+4=5 |
| 2. Write short notes on <i>any two</i> :
a) Dichotomous keys
b) Role of Botanical gardens
c) RET Plants | 5+5=10 |
| 3. Define the concept of biodiversity hotspots. How many biodiversity hotspots are identified around the world? Discuss in detail the biodiversity hotspots of India. | 2+2+6=10 |
| 4. What is Taxonomy? What are the different methods of plant Identification? | 2+8=10 |
| 5. Define Inflorescence. Discuss briefly about different types of inflorescence in angiosperms. | 2+8=10 |

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