

M.Sc. BOTANY
FOURTH SEMESTER
ANGIOSPERM TAXONOMY
MSB – 402C

(Use Separate Answer Scripts for Objective & Descriptive)

Duration: 3 hrs.

Full Marks: 70

Time: 20 min.

(PART-A: Objective)

Marks: 20

Choose the correct answer from the following:

1X20=20

1. Which of these is the most advanced phylogenetically among the dicotyledonous families?
 - a. Scrophulariaceae
 - b. Acanthaceae
 - c. Umbelliferae
 - d. Compositae
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. Pick the right sequence of taxonomic categories
 - a. Division-class-family-tribe-order-genus-species
 - b. division-class-family-order-tribe-genus-species
 - c. division-class-order-family-tribe-genus-species
 - d. division-order-class-family-genus-tribe-species
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. 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
8. "Flora of Assam" was published in
 - a. 1934
 - b. 1936
 - c. 1932
 - d. 1926
9. Who prepare red list of endangered species?
 - a. Botanical Survey of India
 - b. Zoological Survey of India
 - c. Geological Survey of India
 - d. All above

10. Similarities between Gnetales and Angiosperms
 - a. Presence of two cotyledons
 - b. Vessels in the secondary phloem
 - c. Bisexual inflorescence
 - d. All of these
11. Fruit in family Lamiaceae is
 - a. Capsule
 - b. Nut
 - c. Regma
 - d. Carcerulus
12. Large areas of protected land for conservation of wildlife, plant and animal resources and traditional life of the tribals living in the area are referred to as
 - a. Biosphere reserves
 - b. Sanctuaries
 - c. National parks
 - d. All of these
13. Where the British museum of Royal Botanical Garden is located
 - a. Paris
 - b. Kew
 - c. Kolkata
 - d. Dehradun
14. How many Biogeographical regions of India are there in India
 - a. 9
 - b. 10
 - c. 11
 - d. 8
15. A storehouse of botanical books, journals, periodicals, magazines, photographs, movies, newspapers, dissertations, etc. is called
 - a. Herbarium
 - b. Botanical library
 - c. Botanical garden
 - d. Museum
16. For effective publication
 - a. A taxon name should not be published in a scientific journal
 - b. A taxon name should be sent to a scientific journal
 - c. A taxon name should be published in a scientific journal
 - d. None
17. In which of the following book Linnaeus constantly used the binomial system in plant names
 - a. Genera Plantarum
 - b. Hortus Cliffortianus
 - c. Species Plantarum
 - d. None
18. Name the scientific approach of classification of plants on the basis of their biochemical constituents
 - a. Chemotaxonomy
 - b. Karyotaxonomy
 - c. Cytotaxonomy
 - d. Serotaxonomy
19. A floral formula does not tell about
 - a. Ovary position
 - b. Whorls of floral parts
 - c. Number of floral parts
 - d. Placentation and aestivation
20. An organism, which is threatened with extinction unless the circumstances that are threatening its survival and reproduction improve
 - a. Extinct species
 - b. Vulnerable speies
 - c. Rare species
 - d. Endangered species

(PART-B :Descriptive)

Time : 2 hrs. 40 min.

Marks : 50

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

1. Briefly explain different biogeographical regions of India. 10
2. Write a short note on Botanical Garden. 10
3. Write about Artificial system of classification. Mention its advantages and disadvantages. 6+4=10
4. Short note on: 5+5=10
 - a. Botanical survey of India
 - b. Effective and Valid publication
5. Define Binomial Nomenclature. Write about principles and rules of nomenclature. 2+8=10
6. Write general characters and economic importance of Asteraceae. 10
7. Write a brief about Modern trends in taxonomy. 10
8. Write short notes on: 5+5=10
 - a. Botanical library
 - b. Phyllode theory

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