

M.Sc. BOTANY
Third Semester
Plant Ecology
(MSB - 13)

Duration: 3Hrs.

Full Marks: 70

Part-A (Objective) =20
Part-B (Descriptive)=50

(PART-B: Descriptive)

Duration: 2 hrs. 40 mins.

Marks: 50

1. Answer the following questions (any five)

2×5=10

- a) What is Ecotone?
- b) What do you mean by Biome? Give an example.
- c) Write an important character of Tropical forest.
- d) What is biodiversity? Write its importance.
- e) What do you mean by indigenous medicinal system?
- f) Botanical Survey of India.
- g) What is ammonification?

2. Write short notes on the following (any five)

3×5=15

- a) Scramble competition.
- b) Ecology & Ecosystem.
- c) Biosphere reserves of North East India.
- d) Climax community.
- e) Types of Niche.
- f) Commensalism.
- g) Energy flow.

3. Answer the following questions (any five)

5×5=25

- a) What is population? What are the characteristics?
- b) What is distribution pattern? Explain with proper examples.
- c) What is nutrient cycle? Explain with a special reference to C cycle.
- d) Define succession. What are the basic types of Succession?
- e) What is In-situ conservation? Explain with proper examples.
- f) Write a note on "Botanical garden". Prepare a report on the role of Botanical Garden in biodiversity conservation.
- g) What is Age structure? Discuss different types with their characters.

11. Two major components of an ecosystem are
 A) Food chain and decomposers B) mineral cycling and energy flow
 C) Food chain and energy flow D) Energy flow and decomposers
12. In a tree ecosystem the pyramid of number is
 A) Upright B) inverted C) spindle like D) Variable
13. Maximum number in pond ecosystem is of
 A) Producers B) consumers C) top consumers D) decomposers
14. Stratification is more common in
 A) Deciduous forest B) Tropical forest C) temperate forest D) Tropical savannah
15. Maximum control of hydrological cycle is exerted by
 A) Epiphytes B) forests C) Plankton D) Grassland
16. Vegetation of an area is mainly determined by
 A) Soil type B) rainfall C) amount of light D) soil water & adaptability
17. In India most common types of plant formations are
 A) Forest B) Grassland C) both A & B D) None
18. According to IUCN (1984, 1988), which is not a main conservation category
 A) Endangered B) Insufficiently known C) Rare D) None
19. Biosphere Reserve Programme was launched under "Man and the Biosphere" programme (MAB) by
 A) UNESCO in 1970 B) UNESCO in 1971
 C) UNESCO in 1972 D) UNESCO in 1973
20. "Kanchenzonga" National park is in East Himalayan region of
 A) Arunachal Pradesh B) Sikkim
 C) Tripura D) Mizoram
