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SECOND YEAR (BIOTECHNOLOGY)
BIO2425: BIODIVERSITY AND SYSTEMATICS
(Semester IV)

Program: B.Sc. Biotechnology (04)
Program Specific: Biotechnology
Course Type: Core

Credits: 2
Time: 2 Hours
Max. Marks: 30
SET: A

Instructions to the candidate:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- 3) Draw a well labelled diagram wherever necessary.

SECTION: A

Q1) Answer the following.

[1 X 5 = 5]

1. Define biodiversity.
2. What is insular habitat?
3. How to calculate population density?
4. Define taxonomy.
5. What do you mean by opportunistic species?

SECTION: B

Q2) Answer any FIVE of the following (5/7).

[2 X 5 = 10]

1. What is Biodiversity hotspot? Give two examples.
2. State any four roles of forest research institute in conservation.
3. What is niche? Give its types.
4. What is aesthetic and cultural use of Biodiversity?
5. Comment on Biomimetics.
6. Mention any four causes of species extinction.
7. Give the importance of CITES.

P.T.O.

SECTION: C

Q3) Answer any TWO of the following (2/4).

[5 X 2 = 10]

1. Give an account of Wild Life Protection Act,1972.
2. Explain in detail the uses of biodiversity.
3. Describe major threats to biodiversity with one case study.
4. Justify the advantages of molecular tools over morphological tools used in taxonomy.

SECTION: D

Q4) Answer any ONE of the following (1/2).

[5 X 1 = 5]

1. Describe in detail in-situ biodiversity conservation methods.
1. Explain principles and objectives of taxonomy and nomenclature.
