

[This question paper contains 2 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 5709

K

Unique Paper Code : 2182013501

Name of the Paper : Biodiversity and Conservation
(DSC EVS 13)

Name of the Course : **B.Sc. (Hons.) Environmental
Sciences**

Semester : V

Duration : 2 Hours

Maximum Marks : 60

Instructions for Candidates

1. Write your Roll No. on the top immediately on receipt of this question paper.
2. Attempt any **four** questions.
3. **All** questions carry equal marks.

1. Write short notes on **any three** of the following :
(5×3=15)
 - (a) Tree of life and evolutionary history
 - (b) Evenness and abundance
 - (c) Ecosystem services: nutrient cycling and climate regulation
 - (d) IUCN Red List categories

P.T.O.

2. Differentiate between **any three** of the following :
(5×3=15)
- (a) Natural vs. anthropogenic disturbances
 - (b) National Parks vs. Wildlife Sanctuaries
 - (c) Gene banks vs. Seed banks
 - (d) Density vs. Frequency in Biodiversity Surveys
3. (a) Describe the geographic time scale and its role in understanding organic evolution. (10)
- (b) How many species are estimated on Earth? Mention the basis of estimation. (5)
4. (a) Explain molecular techniques used in biodiversity estimation. (10)
- (b) What is the significance of a molecular database? (5)
5. (a) Discuss the consequences of biodiversity loss on ecosystem functioning. (10)
- (b) What is invasive species threat? Provide one example. (5)
6. Describe different strategies to restore biodiversity at ecosystem levels. (15)