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7. Discuss the importance of biodiversity for Human survival. Critically analyze the biodiversity conservation efforts that were taken in India with suitable examples. (15)
8. What is the IUCN Red List? What is its importance? Discuss different criteria that have been taken into account to enlist species among various categories. (15)

(200)

[This question paper contains 4 printed pages.]

Your Roll No.....

Sr. No. of Question Paper : 4327

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Unique Paper Code : 32181501

Name of the Paper : Biodiversity & Conservation

Name of the Course : **B.Sc. (H) Environmental Sciences-Core**

Semester : V

Duration : 3 Hours

Maximum Marks : 75

Instructions for Candidates

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

1. (a) Write the definition of the following (**Any five**) :
(2×5=10)

(i) Umbrella species

(ii) Eco-regions

(iii) Cryopreservation

P.T.O.

- (iv) Speciation
- (v) Seed Bank
- (vi) Protected area

(b) Fill in the blanks : (1×5=5)

(i) Apiko movement was originated in _____ district of _____ state in India.

(ii) Indian Himalaya extends in _____ states of India.

(iii) _____ is a species of monkey endemic to the _____.

(iv) India State of Forest Report (ISFR) is published by _____.

(v) _____ is an UNESCO Natural Heritage Site in India.

2. Write Short notes : (5×3=15)

- (i) Convention on Biological Diversity
- (ii) Agri-biodiversity
- (iii) Silent Valley movement

3. Write down the difference between the following : (5×3=15)
- (i) Phytogeographic zone and Zoogeographic zone
 - (ii) Spatial Pattern of Biodiversity and Temporal Pattern of Biodiversity
 - (iii) RFLP and AFLP
4. What is mass extinction? According to various reports, Earth is experiencing a sixth mass extinction. What are the factors responsible for such an unprecedented loss of biodiversity? Elaborate on the impact of this on humans and the environment. (15)
5. (a) What is ecological restoration? Why is it important to restore the ecosystem? How ecosystem restoration is different from ecosystem preservation. (8)
- (b) Discuss various strategies for ecological restoration with suitable case studies. (7)
6. (a) What do you mean by species diversity? Does species diversity follow any patterns? Discuss various methods of biodiversity estimation. (10)
- (b) What is the biodiversity Index, and what does it indicate? (5)