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The Assam Royal Global University, Guwahati
Royal School of Life Sciences
MSc Zoology 4th Semester
Semester End Examination, June 2023
Course Title: BIOGEOGRAPHY AND WILDLIFE CONSERVATION
Course Code: ZOO144D404

Time: 3 Hours

Maximum Marks: 70

Note: Attempt all questions as per instructions given.

The figures in the right-hand margin indicate marks.

Section – A

1. Attempt **all** questions. (Maximum word limit 50) 2 x 8
- a. What do you mean by the term species? Give examples.
 - b. What is extinction? Briefly tell about the historical extinction events that have occurred.
 - c. Briefly write on grassland biome.
 - d. Define climax community with suitable example.
 - e. What do you mean by 'Local Extirpations'?
 - f. How do linear infrastructures impact wildlife?
 - g. How can spillover events cause pandemics?
 - h. What are the objectives of Wildlife Protection Act?

Section – B

2. Attempt **any one** of the following: 12 x 1
- a. Describe the various biogeographical realms.
 - b. Discuss the factors which impacts the global distribution of animals.
3. Attempt **any two** of the following: 7 x 2
- a. Discuss the different forest types of India.
 - b. Shed some light on the concept of home range.
 - c. In what ways do animals utilize their habitats.
4. Attempt **any two** of the following: 7 x 2
- a. Chalk out some key threats to wildlife in this 21st century.
 - b. Discuss your understanding of biodiversity hotspots and endemic species.
 - c. Write a descriptive note on conservation and management of natural resources.
5. Attempt **any two** of the following: 7 x 2
- a. How is wildlife trade and diseases interlinked? Explain with examples.
 - b. Elucidate your understanding of Forest (Conservation) Act, 1980.
 - c. Discuss the causes, implications and mitigation measures of Human Wildlife Conflict.