

**U.G. 3rd Semester Examination-2020****ENVIRONMENTAL SCIENCE****[HONOURS]****Course Code : ENVS-H-CC-L-T-06****(Biodiversity and Conservation)**

Full Marks : 40

Time : 2½ Hours

*The figures in the right-hand margin indicate marks.**Candidates are required to give their answers in their own words as far as practicable.*

1. Answer any **five** of the following:  $2 \times 5 = 10$
- What is meant by biodiversity?
  - Define species richness.
  - Name two biosphere reserves in India.
  - Define ecological restoration.
  - Define exotic species.
  - Write down ethical values of biodiversity.
  - Differentiate between *in-situ* conservation and *ex-situ* conservation.
  - What is restriction fragment length polymorphism (RFLP)?
2. Answer any **two** of the following:  $5 \times 2 = 10$
- Explain organic evolution through geographic time scale.

- Write a short note on molecular techniques of biodiversity identification.
  - Explain Intermediate Disturbance Hypothesis with illustration.
  - Describe in brief the role of remote sensing in biodiversity management.
3. Answer any **two** of the following:  $10 \times 2 = 20$
- What are the ecosystem services of biodiversity? Explain nitrogen cycle with the help of a neat sketch.  $4 + 6 = 10$
  - Describe briefly different types of forest in India with their characteristic features. Write down the impact of hydropower development on biological diversity.  $5 + 5 = 10$
  - Differentiate between habitat loss and habitat fragmentation. State some consequences of biodiversity loss. Write a note on prevailing man-animal conflict in West Bengal.  $3 + 3 + 4 = 10$
  - Discuss in brief the importance of local communities and traditional knowledge in conservation. Write a short note on joint forest management. Differentiate between social forestry and agroforestry.  $4 + 4 + 2 = 10$
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*[Turn over]*