

**SUBJECT CODE: 11ZL/ME/CB23**

**B. Sc. DEGREE EXAMINATION, APRIL 2015**  
**BRANCH VI.A. – ADVANCED ZOOLOGY AND BIOTECHNOLOGY**  
**SECOND SEMESTER**

**COURSE : MAJOR –ELECTIVE**  
**PAPER : CONSERVATION BIOLOGY**  
**TIME : 3 HOURS** **MAX. MARKS: 100**  
**SECTION – A**

**ANSWER ALL QUESTIONS: (10 X 3 = 30)**

1. Define “species”.
2. Mention the importance of biomonitoring.
3. Differentiate in situ and ex situ conservation.
4. **STATE WHETHER TRUE OR FALSE**
  - a) Exotic species are also known as alien species.
  - b) Western Ghats and Eastern Himalayas are biological hot spots from India.
  - c) Invasive species do not harm native species.
  - d) IUCN prepares Red Data Book.
  - e) Indian Wild Life Protection Act 1972 doesn't include Jammu and Kashmir.
  - f) Insular fauna refers to island diversity.

**5. FILL IN THE BLANKS**

- a) A group of spatially separated populations of the same species which interact at some level is called as -----.
- b) We are currently living in the ----- Epoch of the Geological time scale.
- c) ----- is used in cryopreservation of embryos.
- d) The Biological Diversity Act of India was proposed in the year -----.
- e) National Biodiversity Authority of India is in ----- state.
- f) ----- is the only wetland of Chennai.

**6. DIFFERENTIATE**

- a) Natural and Anthropogenic threats to biodiversity.
  - b) Endangered and vulnerable species.
7. Mention the role of habitat fragmentation in biodiversity loss.
  8. What are Wildlife corridors?
  9. List down the importance of captive breeding.
  10. Write a note on wildlife sanctuaries.

**SECTION – B**

**ANSWER ANY FIVE QUESTIONS:**

**(5 X 6 = 30)**

11. Write notes on ecological and geographical factors contributing to biodiversity.
12. Extinction as an inevitable ecological happening - Explain.
13. How pollution contributes to biodiversity loss? Explain.
14. Explain the significance of biodiversity monitoring.
15. Enumerate points on traditional ecological management practices.
16. Write down your interpretations about “ecosystem stress”.
17. Explain the preamble of Indian Wild Life Protection Act 1972.

**SECTION – C**

**ANSWER ANY TWO QUESTIONS:**

**(2 X 20 = 40)**

18. Write an essay on valuing biological diversity.
19. Explain in detail the conservation strategies.
20. Write an essay on sustainable development.
21. Write an account on the following
  - a) Invasive species
  - b) Geographical distribution of species
  - c) Community level conservation
  - d) Role of IUCN, UNESCO and MAB in conservation.

\*\*\*\*\*