

M.Sc. ZOOLOGY  
THIRD SEMESTER  
ANIMAL ECOLOGY AND WILDLIFE BIOLOGY-I  
MSZ-303 B

**SET  
A**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 1hr. 30 mins.

Full Marks: 35

Time: 15 mins.

(Objective)

Marks: 10

Choose the correct answer from the following:

1×10=10

- The horns of rhino are:
  - Dermal in origin
  - Skeletal in origin
  - Both a & b
  - None
- How many action plans are there in the NBSAP?
  - Ten
  - Eight
  - Six
  - None
- National Biodiversity and State Action Plan (NBSAP) prepared with a vision targeting the year:
  - 2075
  - 2060
  - 2040
  - None
- Under which section of the wildlife act of India, a forest officer has the power of entry, search, arrest and detention?
  - Section-39
  - Section-49
  - Section-59
  - None
- How many species of elephants are there in the world?
  - Two
  - Three
  - Four
  - Five
- The total number of species in an ecosystem is known as:
  - Species diversity
  - Species richness
  - Species evenness
  - Species abundance
- Which of the following ecosystem is more productive?
  - Monoculture
  - Rainforest
  - Desert
  - All of the above
- Species diversity is highest in which of the following areas?
  - Tropics
  - Temperates
  - Poles
  - Can't be determined
- Which of the following is a keystone species?
  - Barking Deer
  - Elephant
  - Clouded leopard
  - Swamp deer

10. Sustainable ecosystems has the ability of ....., hence they are sustainable.
- a. Resistance
  - b. Inhibition
  - c. Resilience
  - d. All of the above

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**(Descriptive)**

Time : 1 hr. 15 mins.

Marks : 25

[ Answer question no.1 & any two (2) from the rest ]

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| 1. Write short notes on the following:<br>a) Management of wildlife population<br>b) Wildlife act of India   | 2.5+2.5=5 |
| 2. What do you mean by illegal wildlife trade? Write a note on the illegal trade of some major wildlife species of India.  | 2+8=10    |
| 3. What do you mean by human-elephant conflict? Write the causes of human-elephant conflict. Also mention about some of the mitigation measures undertaken in India. | 1+4+5=10  |
| 4. Write an explanatory note on species diversity considering all other parameters of abundance, richness, evenness etc.   | 10        |
| 5. What is ecological footprint? Write in details about carbon emission and trading.   | 10        |

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