

( 4 )

3 (Sem-2) ZOO M 2

Or

What do you mean by wildlife conservation?  
Write about the in-situ means of wildlife  
conservation. 2+8=10

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ZOOLOGY

( Major )

Paper : 2:2

Full Marks : 60

Time : 3 hours

*The figures in the margin indicate full marks  
for the questions*

1. Answer the following : 1×7=7
- (a) What is ecotone?
  - (b) What is Red Data Book?
  - (c) How many Schedules are present in Wildlife Protection Act?
  - (d) What is meant by sedimentary cycle?
  - (e) Define denitrification.
  - (f) Who gave the concept of hot spot?
  - (g) What do you mean by eutrophication?

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2. Write short notes on any *two* of the following :  $2 \times 2 = 4$
- (a) Minamata disease
  - (b) Biosphere reserve programmes
  - (c) Greenhouse effect
3. Distinguish between any *two* of the following :  $2 \times 2 = 4$
- (a) Habitat and Ecological niche
  - (b) Sanctuary and National park
  - (c) In-situ conservation and Ex-situ conservation
4. Answer any *three* of the following :  $5 \times 3 = 15$
- (a) The energy flow in the ecosystem follows the second law of thermodynamics. Explain.
  - (b) Write the objectives of IUCN.
  - (c) Write on the soil pollution and its affect on human health.
  - (d) Construct a pyramid of biomass starting with phytoplankton. Label the different trophic levels.
  - (e) Describe the breeding behaviour of Pigmy Hog.

( 3 )

5. (a) What is oil spill? Explain its effects on the aquatic biota.  $2+3=5$
- Or*
- What are man-made ecosystems? What are their characteristic features?  $2+3=5$
- (b) How many tiger reserves are there in Assam? Name them. What are the main objectives of the tiger projects?  $1+1+3=5$
- Or*
- Describe the salient features of the Wildlife Protection Act, 1972.  $5$
6. What do you mean by biogeochemical cycle? Explain the nitrogen cycle and state why it is regarded as a complete cycle. Mention its significance.  $1+7+1+1=10$
- Or*
- With suitable examples, explain the protective behaviours exhibited by different primates.  $10$
7. Define noise. Describe the adverse effects of noise pollution on human beings. Propose some methods to prevent and control noise pollution.  $1+5+4=10$