

2016

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?

2. Write short notes on any *two* of the following : 2×2=4
- (a) Minamata disease
 - (b) Biosphere reserve programmes
 - (c) Greenhouse effect
3. Distinguish between any *two* of the following : 2×2=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 : 5×3=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.

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

(4)

Or

What do you mean by wildlife conservation?
Write about the in-situ means of wildlife
conservation.

2+8=10
