

2 0 1 2

ZOOLOGY

(Major)

Paper : 2-2

Full Marks : 60

Time : 2½ 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 do you mean by 'bio-magnification'?
 - (c) What is the unit of measurement of sound intensity?
 - (d) What is 'eutrophication'?
 - (e) What is a particulate pollutant?
 - (f) How many schedules are present in 'Wildlife Protection Act'?
 - (g) Name the 'State bird' of Assam.

2. Distinguish between : 2×4=8

(a) *In-situ* and *Ex-situ* Conservation

(b) Autecology and Synecology

(c) Food Chain and Food Web

(d) Sanctuary and National Park

3. Answer the following : 5×3=15

(a) What are man-made ecosystems?
What are their characteristic
features? 2+3=5

Or

What is 'oil spill'? Explain its effects
on the aquatic biota. 2+3=5

(b) Describe the salient features of the
Wildlife Protection Act, 1972. 5

Or

Mention the basic features of a 'Bio-
sphere reserve'. How many Bio-sphere
reserves are there in Assam? Name
them. 3+1+1=5

(c) Write on the Red Data Book
categories. 5

4. What do you mean by 'bio-geochemical'
cycles? Explain the nitrogen cycle and
state why it is regarded as a complete
cycle. Mention its significance as well.
1+7+1+1=10

(3)

Or

What are pollutants? Mention the major air pollutants and their sources of origin. Explain the effects they exert on both plants and animals.

1+2+7=10

5. What do you mean by ecological energetics? With the help of a flowchart, explain it in detail.

2+8=10

Or

Write an explanatory note on the ethology of pigmy hog and its conservation.

6+4=10

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

2+8=10

Or

What is carrying capacity? Write about the different factors affecting the carrying capacity of an ecosystem with examples.

2+8=10
