

2013

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) In which Schedule of Wildlife Protection Act endangered plants are included?
  - (b) What is a 'biome'?
  - (c) What does 'nitrogen fixation' or 'fixation of nitrogen' in nature mean?
  - (d) What is the 'Red Data Book'?
  - (e) What is the scientific name of the 'white-winged wood duck'?
  - (f) To which IUCN Red List category pigmy hog belong to?
  - (g) What is 'pedology'?

2. Briefly describe the following : 2×4=8

(a) Carbon footprint

(b) Itai-itai disease

(c) Parental care

(d) Gene bank

3. Answer the following :

(a) Explain the scope of ecology. 5

(b) Write the effects of eutrophication on aquatic biota. 5

Or

How many 'tiger projects' are there in Assam? Name them. What are the main objectives of the 'tiger projects'?

1+1+3=5

(c) Explain cryopreservation as a means of wildlife conservation. 5

4. Define ecology. Describe the different subdivisions of ecology based on taxonomic affinity, habitat and level of organisation. 2+8=10

Or

What is a 'food chain'? What are the different types of food chains found in nature? Explain them with proper examples. Also try to pinpoint the major differences between them.

2+6+2=10

( 3 )

5. Define noise. Describe the adverse effects of noise on human beings. Propose some methods to prevent and control noise pollution.  $1+5+4=10$
6. What does habitat preservation mean? Write an explanatory note on its significance in wildlife conservation.  $2+8=10$

Or

With suitable examples, explain the protective behaviours exhibited by different primates. 10

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