2 0 1 8

(6th Semester)

ZOOLOGY

Paper : ZL–XII (b)

(Animal Ecology and Wildlife)

Full Marks : 55

Time : 2½ Hours

(PART : A—OBJECTIVE)

(*Marks* : 20)

The figures in the margin indicate full marks for the questions

SECTION—A

(*Marks* : 5)

Tick (✓) the correct answer in the brackets provided :   1×5=5

1. The concept of ecosystem was first of all given by A. G. Tansley in

(a) 1935   (   )

(b) 1927   (   )

(c) 1945   (   )

(d) 1937   (   )

2. Atmospheric state is absent in

(a) carbon cycle ( )

(b) nitrogen cycle ( )

(c) sulphur cycle ( )

(d) phosphorus cycle ( )

3. The last stage of ecological succession is

(a) nudation ( )

(b) competition ( )

(c) climax ( )

(d) None of the above ( )

4. In ecosystem, the population of individuals of only one species is called

(a) polyspecific population ( )

(b) ecological community ( )

(c) ecological density ( )

(d) monospecific population ( )

5. Red-Data Book provides a list of

(a) advanced plants ( )

(b) rare endangered species ( )

(c) disease-resistant animals ( )

(d) None of the above ( )

SECTION—B

(*Marks* : 15)

Write short notes on the following :   3×5=15

   1. Intraspecific interactions

   2. Sulphur cycle

   3. Biotic community

   4. Growth curves

   5. Conservation of natural resources

(PART : B—DESCRIPTIVE)

(*Marks* : 35)

The figures in the margin indicate full marks for the questions

   1. Define ecosystem. Explain in brief the different types of ecosystem.   7

                                   OR

   Describe different types of ecological pyramids.   7

   2. Explain any *one* of the following in detail :   7

   (a) Nitrogen cycle

   (b) Carbon cycle

3. Explain laws of limiting factors and tolerance. $3\frac{1}{2}+3\frac{1}{2}=7$

OR

Describe the major greenhouse gases and global warming. 7

4. What is population? Explain population characteristics. $1+6=7$

OR

Explain the factors affecting species diversity. 7

5. Write a detailed note on wildlife conservation. 7

OR

Give an account on international and national programmes involved in wildlife conservation. 7

★ ★ ★