5 SEM TDC ZOO M 5

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(November)

ZOOLOGY

(Major)

Course : 505

(Environmental Biology and Wildlife)

Full Marks : 48

Pass Marks : 19/14

Time : 2 hours

The figures in the margin indicate full marks
for the questions

1. Fill in the blanks : 1×5=5

    _(a)_ All the populations of a habitat is
    known as _____.

    _(b)_ Montreal Protocol is connected with the
    protection of _____ _____.

    _(c)_ The maximum capacity of an organism
    to reproduce is termed as _____.

(_Turn Over_)

(d) 1992 Earth Summit held in Rio de Janeiro has a worldwide awareness campaign for _____ _____.

(e) Bhopal tragedy was due to the leakage of _____ gas.

2. Distinguish between any *two* of the following :   4×2=8

(a) Shelford's law of tolerance and Liebig's law of minimum

(b) Habitat and Niche

(c) Exponential growth and Logistic growth

3. Write short notes on any *two* of the following :   5×2=10

(a) Eutrophication

(b) Indian Wildlife Protection Act, 1972

(c) Remote Sensing and EIA

(d) Keystone Species

4. What are the abiotic factors of an ecosystem? Explain the effects of light on animal life.   2+6=8

Or

What do you mean by trophic relations of an ecosystem? Discuss the important features of energy flow through various trophic levels.   2+6=8

5. Define biosphere reserve. Write a critical note on natural and anthropogenic threats to biodiversity.   2+3+3=8

Or

What do you mean by endangered species and IUCN status of species category? What is endemism? Write the scientific names of river dolphin and white-winged wood duck.   2+2+2+2=8

6. What is ozone depletion? Discuss various causes of ozone depletion and its harmful effects.   3+3+3=9

Or

What are bioindicators? Discuss with suitable examples, how these may be used in monitoring the state of environment.   3+6=9

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