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B.Sc. (Part-III) Examination, 2022

ZOOLOGY

Paper - III

(Ecology, Microbiology Animal Behaviour  
and Pollution and Toxicology)

Time : Three Hours ] [Maximum Marks : 75

**Note :** This question paper is divided into **three** sections. Attempt **all** questions from **Section-A** and **Section-B**, but only **two** questions from **Section-C**. Marks of each question have been mentioned with question.

**Section-A**

**Note :** Answer the following questions in about 50 words.  $1.5 \times 10 = 15$

1. (i) Botulism

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(2)

- (ii) DDT
- (iii) Acid rain
- (iv)  $LC_{50}$
- (v) Learning
- (vi) Commensalism
- (vii) Mimicry
- (viii) Phototaxis
- (ix) Ecological Niche
- (x) Organophosphorus Pesticides

**Section-B**

**Note :** Write answer of each question in about 200 words.  $8 \times 5 = 40$

2. Define SMOG and discuss its causes.

**OR**

Explain GLOBAL WARMING.

3. Discuss BIOTIC factors.

**OR**

What is INSTINCT and MOTIVATION?

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(3)

4. Discuss ENERGY FLOW in an ecosystem.

OR

Write about Viral Diseases of human beings.

5. Describe GRAM-POSITIVE and GRAM-NEGATIVE bacteria.

OR

Describe bacterial endospore.

6. Explain ECOLOGICAL PYRAMIDS.

OR

Describe abiotic factor - LIGHT.

### Section-C

**Note :** Attempt any **two** questions.  $10 \times 2 = 20$

7. Discuss causes and patterns of BIRD-MIGRATION.
8. Define ECOSYSTEM and explain it with the example of POND-ECOSYSTEM.

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9. Explain DOSE-RESPONSE relationship and also add a note on margin of safety.
10. Write an essay on ECOLOGICAL-SUCCESSION.

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