

7242

M.Sc. IInd Semester EXAMINATION, 2018

ZOOLOGY

Paper – II

(Environmental Toxicology)

Time: Three Hours

Maximum Marks: 80

PART – A (खण्ड – अ)

[Marks: 20]

Answer all questions (50 words each).

All questions carry equal marks.

सभी प्रश्न अनिवार्य हैं। प्रत्येक प्रश्न का उत्तर 50 शब्दों से अधिक न हो।

सभी प्रश्नों के अंक समान हैं।

PART – B (खण्ड – ब)

[Marks: 40]

Answer five questions (250 words each).

Selecting one from each unit. All questions carry equal marks.

प्रत्येक इकाई से एक-एक प्रश्न चुनते हुए, कुल पाँच प्रश्न कीजिए।

प्रत्येक प्रश्न का उत्तर 250 शब्दों से अधिक न हो।

सभी प्रश्नों के अंक समान हैं।

PART – C (खण्ड – स)

[Marks: 20]

Answer any two questions (300 words each).

All questions carry equal marks.

कोई दो प्रश्न कीजिए। प्रत्येक प्रश्न का उत्तर 300 शब्दों से अधिक न हो।

सभी प्रश्नों के अंक समान हैं।

PART – A

1. I. Explain CFCs.
- II. Give full name of EPN and write its effects on organisms.
- III. What is ‘dose effect relationship’?
- IV. Explain synergism and antagonism in relation of toxicants.
- V. What are bioindicators?
- VI. What is bioaccumulation?
- VII. Define plasma concentration of toxicants?
- VIII. What are main routes of exposure of toxicants?
- IX. Write about criteria & safely evaluation.
- X. What is risk management? Describe

PART – B

UNIT –I

2. Describe environmental stress.
3. Explain methemoglobinemia

UNIT –II

4. Write a note on LC 50 and EC 50.
5. Describe main principles of toxicology in brief.

UNIT –III

6. What is dynamics of toxicant –bioaccumulation?
7. Explain degradation of organochlorine by micro-organism.

UNIT –IV

8. Describe storage depots of toxicants in animal body.
9. Explain kinetics of absorption.

UNIT –V

10. Describe risk monitoring.
11. Explain main environmental hazards and their effects.

PART – C

12. Describe ozone depletion in detail.
 13. Describe different models of bioassay of toxicants.
 14. What are basic criteria for survey of environmental toxicants in an industrial area?
 15. Explain main sites of absorption of xenobiotics.
 16. Describe risk assessment with suitable examples.
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