The Open University of Sri Lanka
Faculty of Natural Sciences
B.Sc/ B. Ed Degree Programme

Department	: Zoology
Level	: 5
Name of the Examination	: Final Examination
Course Code and Title	**: ZYU5303/Environmental Toxicology**
Academic Year	: 2023-2024
Date	: 20.04.2024
Time	: 1.30 pm- 3.30 pm
Duration	: 02 hrs
Index number	:

General Instructions

1. Read all instructions carefully before answering the questions.
2. This question paper consists of **Six (06)** questions in **one (01)** page.
3. Answer any **four (04)** questions only. All questions carry equal marks.
4. Answer for each question should commence from a new page.
5. Draw fully labelled diagrams where necessary
6. Having any unauthorized documents/ mobile phones in your possession is a punishable offense
7. Use blue or black ink to answer the questions.
8. Circle the number of the questions you answered in the front cover of your answer script.
9. Clearly state your index number in your answer script

1. i. Define the term . "Environmental pollutant " [20 marks]

ii. Giving suitable examples, describe different groups of environmental pollutants present in the envieonment. [80 marks]

2. i. How do you categorize plastics based on particle size ? [20 marks]

ii. Discuss the health impacts of plastics on humans [80 marks]

3 " Chemicals released into the environment rarely remain in the form, or at the location, of release". Taking a suitable example, discuss the fate of pollutants in terms of biotic and abiotic processes. [100 marks]

4. i. Distinguish between mesocosmal studies and field studies. [40 marks]

ii. Design a mesocosmal study to assess the chronic toxicity of nitrate contamination, by applying a freshwater fish as a model organism [60 marks]

5. Describe the sequential approach of Environmental Risk Assessment [100 marks]

6. Write short notes on any TWO (2) of the following. [50 marks each]

i. Acute toxicity mechanisms

ii. Environmental fate models

iii. Environmental cancers

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