



**RAJARATA UNIVERSITY OF SRI LANKA**  
**FACULTY OF APPLIED SCIENCES**

**B.Sc. (Special) Degree in Applied Sciences**  
**Third year – Semester II Examination - February/March 2019**

**BIO 3205 – ECOTOXICOLOGY**

**Time: Two (02) hours**

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**Answer All questions.**

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1. a) Design an experiment to assess the effect of Cd (Cadmium) on fry of *Oreochromis mossambicus*.  
(30 marks)
- b) Illustrate the dose-response curve for the experiment designed in above, showing all endpoints you will measure in this experiment.  
(10 marks)
2. Write a brief account on radioactive isotopes and their disposal methods.  
(20 marks)
3. a) State the factors that determine movement and distribution of pollutants in the environment.  
(10 marks)
- b) Explain the term “bioavailability” using soil as an example.  
(10 marks)
4. a) Using a flowchart, illustrate the general fate of lipophilic xenobiotics in living organism.  
(10 marks)
- b) Discuss the mechanisms of how pollutants are metabolized in a organism  
(10 marks)

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