

**UNIVERSITY OF RUHUNA**  
**BACHELOR OF SCIENCE SPECIAL DEGREE LEVEL II (SEMESTER II)**  
**EXAMINATION – NOVEMBER/DECEMBER 2016**

**SUBJECT : Zoology**

**Time: 01½ hours**

**COURSE UNIT: ZOO 4133 – *Subject specialization***  
**Environmental Science**

Answer **any three** questions only.  
*Illegible handwriting would be penalized.*

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1. Discuss the strategies/methods adopted for shrinking the “waste stream” in the modern society.
  
2. (i). Write a brief account on **any one** of the following environmental toxicants given below, highlighting, its sources, routes of exposure and its effects.
  - (a). BPA
  - (b). Organophosphates(ii). Give a critical (concise) account on the methods used to assess water quality/pollution.
  
3. Discuss the applications of nanotechnology in environmental remediation.
  
4. (i). What are public goods?
  - (ii). Show the allocation problem associated with public goods.
  - (iii). “Although achieving a Pareto Optimal Allocation of public goods is a theoretical possibility, it is difficult to achieve in practice”. Discuss this statement.

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