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**University of Ruhuna- Faculty of Technology**  
**Bachelor of Biosystems Technology Honours Degree**  
**Level 1 (Semester I) Examination, July 2023**  
**Academic year 2020/2021**

**Course Unit: BST 1162 Introduction to Environmental Science (Written)**  
**Duration: One and Half Hours**

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**Answer Any Four (04) Questions**

**Question One**

1. State three (03) heat transfer methods. (3 Marks)
2. State two (02) examples for followings.
  - a. Thermometers: (4 Marks)
  - b. Recording type rain gauges: (4 Marks)
3. State three (03) measures that can be taken to prevent soil erosion in tea lands. (3 Marks)
4. Name four (04) major ports in Sri Lanka. (4 Marks)
5. Name four (04) common fishing techniques. (4 Marks)
6. Briefly explain the 'Overfishing'. (4 Marks)

**Question Two**

1. Define an ecosystem with a suitable illustration. (5 Marks)
2. List out the components of an ecosystem? (4 Marks)
3. Briefly explain the ecological niche of a species in an ecosystem. (6 Marks)
4. Explain what would happen to an ecosystem if all the microbial decomposers are eradicated? (10 Marks)

**Question Three**

1. Name different types of populations based on the dispersion of individuals. (3 Marks)
2. Mention the factors that limit the growth rate of a population. (4 Marks)
3.
  - i. Write three (03) negative impacts of industrial revolution on environment. (3 Marks)
  - ii. List three (03) effects of air pollution. (3 Marks)
  - iii. Mention four (04) causes of land pollution. (4 Marks)
4. What actions would you get to control or minimize environmental pollution in Sri Lanka? (8 Marks)

**Question Four**

1. List out the public lands maintained by the government of Sri Lanka and briefly discuss their impact on environment. (10 Marks)
2. "Depletion of old-growth forests increases the risk of climate change." Justify this statement. (15 Marks)

**Question Five**

Write short notes on any of two (02) of the followings. (25 Marks)

1. The ozone layer
2. Photochemical Smog
3. Ozone-Depleting Substances

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