



EASETRN UNIVERSITY, SRI LANKA

FACULTY OF SCIENCE

THIRD YEAR EXAMINATION IN SCIENCE 2020/2021 (OCT/ NOV 2024)

HONOURS DEGREE IN CHEMISTRY

CH4042 ENVIRONMENTAL CHEMISTRY

Answer all questions

Time: Two hours

1. Answer all parts

- (a) Explain how acid rain is produced. Briefly discuss the human activities which are responsible for its occurrence. Discuss its effects on Statues and Monuments.  
(35 Marks)
- (b) What is ozone layer? What are the factors responsible for the ozone layer depletion? Briefly describe its consequences.  
(35 Marks)
- (c) Discuss the ways in which soil is getting polluted. What efforts will you take for controlling this type of pollution?  
(30 Marks)

2. Answer all parts

- (a) Discuss the phenomenon of global warming. Briefly discuss the effects of Global Warming to the environment and human health  
(35 Marks)
- (b) Briefly discuss the "Photochemical Smog" with the reactions involved in the formation of it. Discuss the effects and control measures of "Photochemical Smog".  
(35 Marks)

- (c). Most of the countries, including Sri Lanka use "Thermal Power Plants" to generate the electricity. Briefly discuss the causes and effects of the "Thermal Power Plants" to the environment.

(30 Marks)

3. Answer all parts

- (a) Marine pollution is one of the threats to the environment nowadays and it is caused by several factors. Briefly discuss the possible causes of this type of pollution. Describe the environmental effects of marine pollution. Discuss the ways to avoid such types of pollution.

(40 Marks)

- (b) Water purification plays a key role in ensuring access to safe drinking water and it positively impacts the health of the entire community. Briefly discuss the steps involved in the process of water treatment for drinking purposes,

(30 Marks)

- (c) Evaluate the impact of Green Chemistry on environmental and human health

(30 Marks)

4. Answer all parts

- (a). Briefly discuss how water gets polluted. Discuss the sources, control measures and its effects to the environment.

(60 Marks)

- (b). Municipal Council of your area approaches you to get your advice to dispose the different types of solid wastes in your area. Briefly discuss the methods that you would suggest to dispose the different types of solid wastes.

(40 Marks)

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