



EASTERN UNIVERSITY, SRI LANKA

THIRD EXAMINATION IN SCIENCE

SPECIAL DEGREE EXAMINATION IN CHEMISTRY - 2012/2013 (2016)

CHS 04 ENVIRONMENTAL CHEMISTRY

Answer All Questions

Time: One Hour

1. (a) What is the significance of the ozone layer? What are the factors responsible for the ozone layer depletion? Briefly describe its consequences. Explain the proposed ways to reduce ozone layer depletion.
(25 Marks)
- (b) "Municipal and industrial solid waste are responsible for water and soil pollution". Justify the statement.
(25 Marks)
- (c) Briefly discuss the formation of "Photochemical Smog" giving the reactions involved.. Discuss the environmental and health effects of photochemical smog and methods to control "Photochemical Smog".
(25 Marks)
- (d) Discuss the water pollution in your area? What measures would you suggest to control this type of water pollution?
(25 Marks)

(P.T.O)

2. (a) Most of the countries, including Sri Lanka are using "Thermal Power Plants" to generate electricity. Briefly discuss the environmental effects arising from the operation of "Thermal Power Plants".

(a) A large number of fish are suddenly found floating dead on a lake. There is no evidence of toxic dumping, but you find abundance of phytoplankton. Discuss the reasons for the fish kill.

(b) Briefly discuss the various methods used in municipal solid waste disposal.

End of Paper