



MASENO UNIVERSITY
UNIVERSITY EXAMINATIONS 2015/2016

**THIRD YEAR FIRST SEMESTER EXAMINATIONS FOR THE
DEGREE OF BACHELOR OF SCIENCE IN ENVIRONMENTAL
SCIENCE WITH INFORMATION TECHNOLOGY**

MAIN CAMPUS

NES 306: ECONOMICS OF POLLUTION CONTROL

Date: 19th January, 2016

Time: 8.30 - 10.30 am

INSTRUCTIONS:

- Answer question ONE and any other TWO questions.

1. a) Define environmental pollution giving suitable examples and explain why it is necessary to control it. [10 mks]
b) Explain the meaning of Pareto-optimality and review the conditions necessary for achieving it. [10 mks]
c) Explain and depict graphically how a green tax works. [10mks]
2. Market forces of demand and supply come into play in the utilization of environmental resources for production. Explain the factors that:
a) Affect demand of environmental resources. [10mks]
b) Determine supply of environmental resources. [10mks]
3. "It is the poor who are to blame for environmental degradation". Discuss the accuracy of this statement. [20 mks]
4. A tax is one of the economic instruments used by a country to protect the environment. Elucidate the functions of taxes. [20mks]
5. Analyze 5 methods by which the government intervenes to deal with externalities in mixed economies. [20mks]
6. Write short notes on the following :
a) Eutrophication. [5mks]
b) The tragedy of commons [5 mks]
c) Greenhouse effect. [5 mks]
d) Solid waste. [5 mks]