

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF APPLIED SCIENCES

BACHELOR OF SCIENCE HONOURS DEGREE EXAMINATIONS

DEPARTMENT OF APPLIED BIOLOGY AND BIOCHEMISTRY

THEORY: ENVIRONMENTAL SCIENCE SBB 1101

May 2006

3 HOURS (100 marks)

INSTRUCTIONS

Answer any **Four (4)** Questions. Each question carries 25 marks. Where a question contains subdivisions, the mark value for each subdivision is given in brackets. Illustrate your answer where appropriate with large, clearly labelled diagrams.

1. Describe the global nitrogen cycle and show how human activity impacts on it.
2. Discuss the ecological and economic importance of freshwater wetlands.
3. Discuss the major public health risks humanity faces and suggest how these risks can be minimized.
4. Explain why current trends in water resources management are moving towards catchment-based management strategies.
5. Discuss the nature, causes and effects of global warming as influenced by human activities, suggesting how developing countries can contribute to reducing this phenomenon.
6. Discuss the major prevention and clean-up methods for dealing with air pollution from
 - (a) Vehicle emissions
 - (b) (13 marks)
 - (c) Indoor air pollution

(12 marks)

END OF EXAMINATION

