

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

FACULTY OF APPLIED SCIENCES

DEPARTMENT OF ENVIRONMENTAL SCIENCE AND HEALTH

FINAL EXAMINATIONS

MAN AND THE ENVIRONMENT: ESH 1102

January 2013

Time Allowed: 3 Hours

Total Marks 100

INSTRUCTIONS TO CANDIDATES:

Answer any FOUR questions. Each question carries 25 marks

Question 1

Describe and explain possible impacts of continued emissions of Carbon dioxide into the atmosphere.

Question 2

a) Describe the nitrogen cycle, explaining fully the six key transformations in the cycle.
(20 marks)

b) Explain why nitrogen is qualified as a limiting nutrient in water bodies, even though its present in excess in many locations.
(5 marks)

Question 3

Describe human land use patterns that exacerbate desertification and suggest ways in which those patterns can be improved.

Question 4

Discuss the social, economic and environmental implications of biodiversity loss.

Question 5

Using examples, discuss the environmental impacts associated with use of hydroelectric energy.

Question 6

“Move towards a one world government is the only way in which man and the environment can interact sustainably” Discuss this statement.

End of Question Paper

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SUPPLEMENTARY EXAMINATIONS

MAN AND THE ENVIRONMENT: ESH 1102

Year 2013

Time Allowed: 3 Hours

Total Marks 100

INSTRUCTIONS TO CANDIDATES:

Answer any FOUR questions. Each question carries 25 marks

Question 1

- a) With the aid of diagrams explain how energy flows through the ecosystem. (10 marks)
b) Discuss how human activities have altered this system (15 marks)

Question 2

Discuss the stages involved in the demographic transition.

Question 3

- (a) What are the major agents of soil erosion? (5 marks)
(b) Discuss how this natural process may be accelerated by inappropriate agricultural practices. (20 marks)

Question 4

- a) Define the term “sustainable development”. (5 marks)
b) With the aid of a case study, describe the outcomes where this concept has been successfully applied. (20 marks)

Question 5

- (a) Discuss the major threats to biodiversity in Sub-Saharan Africa. (15 marks)
(b) Describe the objectives of any three regional conservation bodies involved in sustainable utilization of natural resources. (10 marks)

Question 6

“National Parks and Game Reserves are a wildlife conservation tool as much as they are a threat to wildlife”. Discuss this statement. (25 marks)