

# University Examinations for 2019/2020 Academic Year SCHOOL OF BUSINESS AND ECONOMICS

### DEPARTMENT OF ECONOMICS

## THIRD YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR BACHELOR OF ENVIRONMENTAL SCIENCE

#### **ESU 305 ENVIRONMENTAL ECONOMICS**

DATE: 19/01/2021 TIME:2.00-4.00 PM

#### **INSTRUCTIONS:**

- (i) Answer question one (Compulsory) and any other two questions
- (ii) Do not write on the question paper
- (iii) Show your working clearly
- (iv) Written material or electronic gadgets including mobile phones are not allowed in exam room.

#### **QUESTION ONE (30 MARKS)**

- a) Define the term sustainable development. (2 marks)
- b) Explain the policies that a country can adopt to ensure sustainable development. (8 marks)
- c) Examine four key economic incentives to pollution control. (8 marks)
- d) Discuss three international trade agreements that have an impact on global environment

(12 marks)

#### **QUESTION TWO (20 MARKS)**

- a) Define a property right and point out some of its characteristics. (10 marks)
- b) Explain the Inverted U- kuznet curve and its limitations (10 marks)

#### **QUESTION THREE (20 MARKS)**

Write brief notes on the following environmental concepts

a) Information Asymmetry (6 marks)

b) Global warming (6 marks)

c) Environmental Impact Assessment (8 marks)

#### **QUESTION FOUR (20 MARKS)**

- a) Discuss how the environment affects the economy. (8 marks)
- b) Clearly distinguish between the following paired concepts.
  - i. Environmental Economics and Resource Economics. (4 marks)
  - ii. Ambient Standard and Emission standard. (4 marks)
  - iii. Ultimate resource and steady state economics. (4 marks)

#### **QUESTION FIVE (20 MARKS)**

- a) Using diagrams, explain the relevance of Pigovian tax in controlling pollution. (10 marks)
- Explain the coarse theorem and illustrate using diagrams how the social optimal pollution can be achieved.
  (10 marks)