

MACHAKOS UNIVERSITY

University Examinations for 2019/2020 Academic Year

SCHOOL OF BUSINESS AND ECONOMICS

DEPARTMENT OF ECONOMICS

FOURTH YEAR SPECIAL/SUPPLEMENTARY EXAMINATION FOR

BACHELOR OF ECONOMICS AND STATISTICS

BACHELOR OF SCIENCE IN AGRIBUSINESS MANAGEMENT

AGB 410: ENVIRONMENTAL ECONOMICS AND POLICY

DATE: 22/1/2021 TIME: 8.30-10.30 AM

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) 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)

b) Explain international trade agreements that have an impact on global environment

(10 marks)

c) Examine four key economic incentives to pollution control.

(8 marks)

QUESTION TWO (20 MARKS)

- a) Explain the **Coase Theorem** and illustrate using diagrams how the social optimal pollution can be achieved. (10 marks)
- b) Explain the Inverted U- Kuznets 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) Define the term sustainable development. (2 marks)
- b) Explain the policies that a country can adopt to ensure sustainable development. (8 marks)
- c) Discuss how the environment affects the economy. (10 marks)

QUESTION FIVE (20 MARKS)

- a) Using diagrams, explain the relevance of Pigouvian tax in controlling pollution. (10 marks)
- b) Define a property right and point out some of its characteristics. (10 marks)