

MACHAKOS UNIVERSITY

University Examinations for 2021/2022 Academic Year

SCHOOL OF BUSINESS AND ECONOMICS

DEPARTMENT OF ECONOMICS

FOURTH YEAR SECOND SEMESTER EXAMINATION FOR

BACHELOR OF SCIENCE (AGRIBUSINESS AND TRADE)
AGB 410: ENVIRONMENTAL ECONOMICS.

DATE: 16/12/2021 TIME: 11.00-1.00 PM

INSTRUCTIONS:

- (i) This examination consists of Five questions.
- (ii) Answer question one (Compulsory) and any other two questions.
- (iii) Abide by all rules and regulations concerning this exam carefully.
- (iv) Follow the guidelines on submission of exam script to the letter.
- (v) Violating any of the rules is an exam irregularity and may lead to discontinuation from the University.

QUESTION ONE (COMPULSORY) (30 MARKS)

a) Define environmental economics and explain its importance.

- (6 marks)
- b) "The Environmental Kuznets Curve (EKC) is often used to describe the relationship between economic growth and environmental quality." Critically analyse this statement. (8 marks)
- c) Using diagrams, assess the relevance of Pigouvian tax in controlling pollution. (10 marks)
- d) Evaluate six functions of NEMA.

(6 marks)

QUESTION TWO (20 MARKS)

a) Examine four key economic incentives to pollution control.

(8 marks)

b) Discuss how the environment affects the economy.

(12 marks)

QUESTION THREE (20 MARKS)

a) Analyse four causes of market failure.

(8 marks)

b) Explain the important steps of carrying out Environmental impact assessment of any environmental project. (12 marks)

QUESTION FOUR (20 MARKS)

a) Evaluate on any 5 sustainable development goals. (10 marks)

b) Elaborate on the following concepts as they relate to environmental economics:

i. Information Asymmetry. (2 marks)

ii. Global warming. (2 marks)

iii. Environmental Impact Assessment. (2marks)

c) While giving examples of each differentiate between positive and negative externalities.

(4 marks)

QUESTION FIVE (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) Write detailed notes on two international trade agreements that have an impact on the global environment. (10 marks)