

MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS 2017/2018 ACADEMIC YEAR FOURTH YEAR SECOND SEMESTER

SCHOOL OF BUSINESS & ECONOMICS BACHELOR OF SCIENCE IN AGRICULTURAL ECONOMICS & RESOURCE MANAGEMENT

COURSE CODE: ARE 442
COURSE TITLE: ENVIRONMENTAL ECONOMICS

DATE: 19TH APRIL, 2018 TIME: 1100 – 1300HRS

INSTRUCTIONS TO CANDIDATES

Answer Question **ONE** and any other **THREE** questions

QUESTION ONE

- (a) Does a system of perfectly competitive markets result in an efficient allocation of society's resources? Explain. (8mks)
- (b) Highlight the assumptions for an effective system of transferable permits. (3mks)
- (c) Explain the relationship between economic development and environment (4mks)
- (d) Discuss the causes of market failure in environmental economics.

(10 mks)

QUESTION TWO

- (a) Suppose that a firm marginal production costs are given by MC=10+3Q. The firms production process generates a toxic waste, which imposes an increasing large cost on the residents of the town where it operates; the marginal external cost associated with the Qth unit of production is given by 6Q. What is the marginal private cost associated with the 10th unit produced? What is the total marginal cost to society associated with producing the 10th unit (the marginal social cost of the 10th unit)? (7mks)
- (b) Using a suitable illustration, discuss the practicability of using liability laws in pollution abatement. (8mks)

QUESTION THREE

- (a) Discuss the product mix efficiency in production and consumption for an environmental good. (8mks)
- (b) Define resource conservation. Argue the case that increased conservation is not always socially desirable. (7mks)

QUESTION FOUR

- (a) What is sustainable development? Discuss the impact of transport development to environment. (8mks)
- (b) Geothermal energy sub-sector in Kenya has attracted huge investment funds. Explain the effect of the sub-sector on the environment.(7mks)

QUESTION FIVE

- (a) Food security is a major concern in Kenya. To address the problem, irrigation projects have been initiated. Explain the effect of these projects to the environment.(7mks)
- (b) By use of relevant domestic and or global environmental legislature, explain the importance of environmental legislature in environmental management. (8mks)

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