



THE TECHNICAL UNIVERSITY OF KENYA

SCHOOL OF ARCHITECTURE AND BUILT ENVIRONMENT

Department of Urban and Regional Planning

Bachelor of Built Environment in Urban Design and Development
Bachelor of Built Environment in Urban and Regional Planning

Year III Semester II EXAMINATION

EAPR 3234 Environmental Management System

EAPQ3234 Environmental Management System

Time: 2hours

INSTRUCTIONS TO CANDIDATES

Answer Question One and any other Two Questions of Your Choice from Section Two in the Answer Booklet Provided. Start each Question in a Fresh Page.

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Answer 3 Questions. Question One from Section One and any other Two Questions of your choice from Section Two.

Section One: Compulsory(30 marks)

Question 1

- a. Define the following terms as used in environmental management system. **10marks**
- i. Rival goods
 - ii. Excludability
 - iii. Entropy
 - iv. A stock-flow resource
 - v. A fund-service resource
- b. List five ecosystem functions. **5marks**
- c. Define and elaborate on the concept of cultural relativism as applied in environmental ethics. **5 marks**
- d. Compare and contrast **screening** and **scoping** in environmental management systems. **10marks**

Question 2

- a. Discuss waste absorption capacity as an ecosystem service. **10 marks**
- b. Using an illustration discuss open and closed systems in relation to economy and ecosystem. **10marks**

Question 3

- a. Not every action that is ethically right can have a law supporting it. Discuss this statement in relation to environmental ethics. **5 marks**
- b. Discuss the following theoretical approaches that help us see more clearly our ethical responsibilities concerning the environment. **15marks**
- i. Anthropocentrism -
 - ii. Biocentrism -
 - iii. Ecocentrism -

Question 4

Industrial ecology is an approach to minimize environmental degradation from industrial production.

- a. List five factors **NOT** considered as clean production. **5 marks**
- b. You have been asked to help your college to reduce its water consumption. Describe the approaches you would use. **15marks**

Question 5

Using an illustration, explain the stages of conducting environmental impact assessment.

20 marks