



# **EMBU UNIVERSITY COLLEGE**

**(A Constituent College of the University of Nairobi)**

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**2015/2016 ACADEMIC YEAR**

**SECOND SEMESTER EXAMINATION**

**SECOND YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE**  
**(MANAGEMENT OF AGRO-ECOSYSTEMS AND ENVIRONMENT)**

**AEM 205: POLLUTION SCIENCE**

**DATE: APRIL 5, 2016**

**TIME: 08:30-10:30**

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**INSTRUCTIONS:**

**Answer Question ONE and ANY Other TWO Questions**

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**QUESTION ONE**

- a) Differentiate between point and non-point sources of pollution, giving examples. (6 Marks)
- b) Explain how the following causes pollution to water bodies:
- i) Oxygen demanding substances (3 Marks)
  - ii) Suspended solids (3 Marks)
- c) Describe the three classes of pollutants based on their physical state (6 Marks)
- d) Explain how decomposition causes air pollution (6 Marks)
- e) Describe **THREE** modes of exposure to pollutants (6 Marks)

### **QUESTION TWO**

- a) Discuss **FIVE** approaches that can be used by communities and states to promote waste recycling. (12 Marks)
- b) Explain the characteristics of hazardous wastes. (8 Marks)

### **QUESTION THREE**

- a) Explain **FIVE** measures that can be used to control noise pollution in Kenya. (10 Marks)
- b) Discuss **FIVE** health effects of noise pollution in man. (10 Marks)

### **QUESTION FOUR**

- a) Explain the important steps involved in pollution risk assessment. (8 Marks)
- b) Explain the consequences of ocean pollution. (12 Marks)

### **QUESTION FIVE**

- a) Explain the effects of pollution on **FOUR** types of ecosystems. (12 Marks)
- b) Describe **FOUR** parameters of pollution that can be economically evaluated. (8 Marks)

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