EMBU UNIVERSITY COLLEGE

(A Constituent College of the University of Nairobi)

2015/2016 ACADEMIC YEAR

SECOND SEMESTER EXAMINATION

THIRD YEAR EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN HORTICULTURE, CROP PROTECTION AND BACHELOR OF SCIENCE IN AGRICULTURAL ECONOMICS

ACP 304: ENVIRONMENTAL MANAGEMENT

DATE: APRIL 8, 2016 **TIME: 11:00AM-01:00PM**

INSTRUCTIONS:

Answer Question ONE and ANY Other TWO Questions

QUESTION ONE

a) How would the extinction of endangered species lead to unstable ecosystem. (3 Marks)

b) Highlights the components of physical environment. (3 Marks)

c) Identify 3 indicators of a healthy environment. (3 Marks)

d) Highlights any three consumptive values aspect of a healthy environment. (3 Marks)

e) Differentiate between environmental conservation and environmental restoration (3 Marks)

f) Define biological oxygen demand (BOD) and its relationship with dissolved oxygen in a water body. (3 Marks)

g) State three reasons why we should discourage the use of Chlorofluorocarbons (CFCs) in our industries today. (3 Marks)

h) Highlights on how degradable and non degradable solid wastes can be managed. (3 Marks)

i) Using a chemical equation, illustrate the depletion of Ozone layer in the atmosphere. (3 Marks)

QUESTION TWO

By use of a well illustrated diagram, discuss the primary, secondary and tertiary treatment of a municipal sewage. (20 Marks)

QUESTION THREE

A third year student visited a fish pond and noted that the entire water surface was covered by alga bloom. Describe the process that may have led to this phenomena and its implication.

(20 Marks)

QUESTION FOUR

A group of Ecology students from Embu University visited an environmentary degraded where they were to educate the community on environmental degradation. Discuss some of the key indicators of environmental degradation that they may have highlighted. (20 Marks)

QUESTION FIVE

a) Critically evaluate the initiatives by your country for the control of the following:

i) Water pollution (10 Marks)

ii) Soil degradation (10 Marks)

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