

EMBU UNIVERSITY COLLEGE (A CONSTITUENT COLLEGE OF THE UNIVERSITY OF NAIROBI)

SECOND SEMESTER EXAMINATIONS 2013/2014

SECOND SEMESTER EXAMINATION FOR THE DEGREE OF MASTER OF SCIENCE IN PLANT ECOLOGY

SBT 510: EUTROPHICATION AND POLLUTION

DATE: APRIL 10, 2014

TIME: 8.30AM - 10.30AM

INSTRUCTIONS:

ANSWER QUESTION ONE AND ANY OTHER THREE QUESTIONS.

QUESTION ONE

- a) Describe 3 environmental degradation processes that may lead to eutrophication and pollution
 (15 marks)
- b) Discuss nutrient loss and surface nutrient concentration due to watershed manipulation
 (10 marks)

QUESTION TWO

a) Discuss Nitrogen and Phosphorus cycling in sediments and water interfaces of aquatic ecosystems (25 marks).

QUESTION THREE

a) Outline five (5) different forms of urban pollution and their sources (15 marks).

b) Enumerate the similarities and differences between fresh water and marine water pollution

QUESTION FOUR

a) Discuss bio-amplification of pesticides in aquatic ecosystems (10 marks)

b) Explain self-purification of water in continuous flow water systems

QUESTION FIVE

Discuss Environmental Impact Assessment and Impact Mitigation of eutrophication and pollution. (25 marks)

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(10 marks)