



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

**FIRST YEAR EXAMINATION FOR THE DEGREE OF MASTER OF
SCIENCE IN PLANT ECOLOGY**

SBT 507: ENVIRONMENTAL DEGRADATION AND MANAGEMENT

DATE: DECEMBER 9, 2013

TIME: 2.00 – 5.00PM

INSTRUCTIONS:

Answer Question ONE and ANY Other THREE Questions.

QUESTION ONE

- Describe 3 chemicals whose oxides are the major pollutants in water, soils and the atmosphere, and their sources (15 marks).
- Using chemical equations, explain how the chemicals described in (a) above lead to formation of acid precipitation (10 Marks).

QUESTION TWO

- Describe 4 volatile organic compounds in the atmosphere and their sources (8 Marks).
- Outline 5 human health effects caused by the presence VLCs named in (a) above in the atmosphere (5 Marks).
- Describe 6 types of suspended particulate matter in the atmosphere and their sources (12 marks)

QUESTION THREE

- Describe at least 5 toxic substances that are produced by anthropogenic activities and their potential sources (10 Marks).