

BOWEN UNIVERSITY, IWO
DEPARTMENT OF BIOLOGICAL SCIENCES
2010/2011 FIRST SEMESTER EXAMINATION
MCB 407: SOIL MICROBIOLOGY
THEORY PAPER

Answer any **three** questions. Answer should be illustrated where necessary.
Time: 2hrs 15 mins

1. Discuss any **two** special methods of studying soil microorganisms
(25 Marks)

2. Give an account of the physical properties of soil in relation to the survival of soil microorganisms.
(25 Marks)

3. (a) With the aid of a diagram, discuss the carbon cycle
(b) Give an account of the methane-forming bacteria
(25 Marks)

4. (a) What are pesticides?
(b) Discuss the major effects of micro-organisms on pesticides
(25 Marks)

5. Write short notes on the following in relation to soil Microbiology:
(a) Acid mine drainage (AMD)
(b) Soil fertility
(c) Nitrification
(25 Marks)