**UNIVERSITY OF KABIANGA**

**UNIVERSITY EXAMINATIONS**

**2014/2015 ACADEMIC YEAR**

**SUPPLEMENTARY/SPECIAL EXAMINATION**

**SECOND YEAR SECOND SEMESTER EXAMINATION**

**FOR THE DEGREE OF BACHELOR OF SCIENCE IN MICROBIOLOGY**

**COURSE CODE: MIC 212**

**COURSE TITLE: ENVIRONMENTAL MICROBIOLOGY**

**DATE: 27/8/2015**

**TIME: 2.00 P.M- 5.00 P.M**

**INSTRUCTIONS TO CANDIDATES:**

Answer **all** questions in **section A** and any other **three** in **section B**.

**SECTION A; (28 MARKS)**

1. Define the terms;

a. Sewage. (1 mark)

b. Portable water. (1 mark)

c. Pollution. (1 mark)

d. Biogeochemical cycle. (1 mark)

2. Using an illustration, describe the water cycle. (6 marks)

3. Describe the flow of energy in ecosystems. (6 marks)

4. Describe the process of nitrogen fixation. (6 marks)

5. Using an illustration, describe the sulphur cycle. (6 marks)

**SECTION B; (42 MARKS)**

6. Discuss the factors affecting the soil microorganisms. (14 marks)

7. Discuss fresh water as a microbial environment. (14 marks)

8. Discuss bioremediation. (14 marks)

9. Discuss sewage treatment. (14 marks)