



ELIZADE UNIVERSITY, ILARA-MOKIN, ONDO STATE, NIGERIA

FACULTY OF BASIC & APPLIED SCIENCES  
DEPARTMENT OF BIOLOGICAL SCIENCES  
SECOND SEMESTER EXAMINATION  
2016/2017 ACADEMIC SESSION

COURSE CODE: MCB 408  
COURSE TITLE: SOIL MICROBIOLOGY  
DURATION: 2 HOURS  
SIGNATURE

*Thp arles*

NAME:.....MAT.No:.....

INSTRUCTIONS: ANSWER ANY THREE QUESTIONS, EACH QUESTION CARRY SAME MARKS

1. Without the soil in most cases, plants may not thrive or exist
  - a) Discuss the major role of soil in agricultural and nature.
  - b) List and briefly discuss how soil is classified.
2. (a) With the aid of a labeled diagram explain the nitrogen cycle  
  
(b) Explain the impact of soil microbes on nutrient acquisition and plant productivity in natural ecosystems
- 3 (a) Define the following:
  - (i) Mutualism
  - (ii) Parasitism
  - (iii) Commensalism
  - (iv) Biotransformation(b) Describe the effects of pesticide on the environment  
(c) Mention the policy governing the use of pesticides in the environment
- 4 (a) Briefly discuss the microbial role in biogeochemical cycling and ecological associations among microorganisms.  
(b) Discuss water cycle in relation to evaporation and condensation