ELIZADE UNIVERSITY, ILARA-MOKIN, NIGERIA

FACULTY: BASIC & APPLIED SCIENCES

DEPARTMENT: BIOLOGICAL SCIENCES

FIRST SEMESTER EXAMINATION

2017/2018 ACADEMIC SESSION

COURSE CODE: EMT 409

COURSE TITLE: SOIL AND WATER ANALYSIS

HOD's SIGNATURE

DURATION: 2 HOURS

NAME:...

MAT.No:..

INSTRUCTIONS: ANSWER <u>ANY THREE (3)</u> QUESTIONS

1a. What is a Soil?
1b. Mention the methods used in the digestion of soil samples for analysis.
1c. State the advantages and disadvantages of each method in (1b) above

2a. What is Water Pollution?
2b. Enumerate how pollutants can be classified based on their nature of origin and how they can be controlled.
2c. What other ways can Pollutants be classified apart from based on their origin? List five (5) specific types of pollutants.

3a. Enumerate the properties that affects the quality of water
3b. State the container pre-treatment procedure that are necessary before water sample collection.
3c. How are the collected water samples preserved/stored before analysis?

4. Write short notes on **ANY FOUR (4)** of the following under water analysis:
    i.   Dissolved Oxygen
    ii.   pH
    iii.   Turbidity
    iv.   Temperature
    v.   Specific Conductance
    vi.   Biochemical Oxygen Demand

5. Discuss **very briefly** the following activities under soil sampling collection and handling before analysis
    a.   Soil collection
    b.   sampling labelling and identification
    c.   Transportation and storage
    d.   Drying
    e.   Sieving and Grinding