



**ELIZADE UNIVERSITY,
ILARA-MOKIN, NIGERIA**

FACULTY: BASIC & APPLIED SCIENCES

DEPARTMENT: BIOLOGICAL SCIENCES

FIRST SEMESTER EXAMINATION

2018/2019 ACADEMIC SESSION

COURSE CODE: EMT 401

**COURSE TITLE: ENVIRONMENTAL MONITORING SYSTEMS
AND TECHNIQUES**

DURATION: 2 HOURS

HOD's SIGNATURE

NAME:.....

MAT. No:.....

INSTRUCTION: ANSWER FOUR QUESTIONS IN ALL

1 (a) Define Environmental monitoring

(b) Outline the various ways by which environmental monitoring can be done

2 (a) Differentiate between man-made and natural atmospheric trace components

(b) Briefly explain the following:

(i) Greenhouse effect

(ii) Depletion of stratosphere ozone layer

(iii) Acid rain

3. Describe the various sampling techniques for particulate matter and gaseous sample

4. (i) Meteorological parameters are known to influence the diffusion of pollutants in the atmosphere. Discuss.

(ii) According to Fred Davis, a chemist from Kent State University, United State, some plants are more susceptible to air pollution damage than others. Elucidate some specific damages that may occur on plants susceptible to air pollution.

5. (i) Write short notes on Atmospheric dispersion modeling

(ii) Explain five (5) major ways by which air pollution can be controlled

6 (i) The Niger Delta region is the oil producing area of Nigeria which consist of highly diverse ecosystems that is supportive of numerous species of terrestrial and aquatic fauna and flora. This region is the largest wetland in Africa and among the ten most important wetlands and marine ecosystems in the world. However, incident of oil spills raises concern about the **marine fauna** in the area. Discuss.

(ii) Expatiate on the advantages of Bioassay.

(iii) Write shorts notes on various method of data collections that you know