

ELIZADE UNIVERSITY, ILARA-MOKIN, NIGERIA

FACULTY: BASIC & APPLIED SCIENCES

DEPARTMENT: BIOLOGICAL SCIENCES

FIRST SEMESTER EXAMINATION

2020/2021 ACADEMIC SESSION

COURSE CODE: EMT 505

COURSE TITLE: PRINCIPLES OF ANALYSIS OF TOXICANTS

COURSE UNITS: 3 UNITS

Elaff22/03/2021

DURATION:

2 HOURS

HOD's SIGNATURE

NAME:.....

MAT. No:

INSTRUCTION: ANSWER ANY 4 QUESTIONS

SECTION A

- 1. (a) Mention four (4) types of toxicants and their characteristics in the environment
 - (b) List and explain types of toxic entities
- 2. (a) List the components of staplex air sampler
 - (b) What can you use to sample soil and water?
- 3. (a) Mention the sample preservation methods for aqueous samples.
 - (b) Enumerate the sample collection techniques for air and water samples?
- 4. (a) Mention and discuss five (5) methods for the analysis of toxicants.
 - (b) Explain the following terms:
 - (i) Instrumental Neutron Activation Analysis (INAA)
 - (ii) Activation analysis
- 5. Describe method of operation of the following equipments
 - (i) Auto analyzer
 - (ii) Gas analyzer
- 6. What do you understand by the following:
 - (i) Quality assurance of analytical data
 - (ii) Interpretation of data
 - (iii) Statistical treatment of data