



ELIZADE UNIVERSITY,
ILARA-MOKIN,
ONDO STATE

FACULTY: BASIC & APPLIED SCIENCES

DEPARTMENT: BIOLOGICAL SCIENCES

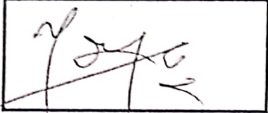
FIRST SEMESTER EXAMINATION

2016/2017 ACADEMIC SESSION

COURSE CODE: EMT 305

COURSE TITLE: METAL AND THE ENVIRONMENT

DURATION: 1HR 30 MIN


HOD's SIGNATURE

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

INSTRUCTION
ANSWER FOUR QUESTION

- 1a. What do you understand by the term "heavy metals"
 - b. Explain the sources of metals in the environment.
 - c. Explain the term "metals of antiquity"
 - d. Explain the mobilization and possible fate(s) of metals in aquatic environment
- 2a. Explain in detail the classes of metals
 - b. List six of the factors responsible for the possible fate of metal pollutants in the environment and explain three of the factors.
 - c. In terrestrial environment, metals are found in one or more of several "pools" of the soil, Explain this statement in the light of pools.
 - d. Explain how first metal was discovered by man and the period.
- 3 a. Explain in detail metal toxicity
 - b. Explain the occurrence /sources of lead to the environment
 - c. Highlight the routes of exposure to Lead (Pb) and explain two of the routes.
 - d. List five each of the symptoms of acute and chronic lead toxicity
- 4a. What are the sources and exposure routes of Cadmium (Cd) to humans
 - b. Give an example of a case of wide spread Cadmium poisoning in history
 - c. What are the uses of Cadmium?
 - d. Highlight the risk mitigation measures for cadmium poisoning
- 5a. What is Minamata Disease
 - b. Briefly describe the occurrence and uses of Mercury
 - c. Explain the sources and exposure routes to zinc
 - d. Man's discovery of metals, boon or bane. Discuss briefly