



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

**FACULTY: BASIC & APPLIED SCIENCES**

**DEPARTMENT: BIOLOGICAL SCIENCES**

**FIRST SEMESTER EXAMINATION**

**2018/2019 ACADEMIC SESSION**

**COURSE CODE: EMT 305**

**COURSE TITLE: METALS AND ENVIRONMENT**

**DURATION: 2 HOURS**

**HOD's SIGNATURE**

**NAME:.....**

**MAT. No:.....**

**INSTRUCTIONS: Attempt any four questions in all**

**Attempt any four questions in all**

1. (a) Briefly describe the term “metal of antiquity”  
(b) Define biomagnification  
(c) What are the properties of metals?  
(d) List three metals each under the following classes of metals
  - I. Alkali metals
  - II. Alkali earth metals
  - III. Metalloids
  - IV. Transition metals
  
2. (a) Define heavy metals  
(b) What are the sources of heavy metals?  
(c) List the factors that influence the fate of metal pollution in the environment  
(d) What are the forms in which metals can be found in the soil.
  
3. (a) Give a list of factors influencing metal toxicity, and discuss any two (2).  
(b) Briefly discuss the types of toxicity, and list three symptoms for each of them?  
(c) List two (2) ores each for any three metals of your choice  
(d) What are the characteristics of metals in different aquatic environment?
  
4. Discuss the effects of heavy metal contamination on plant species
  
5. Briefly discuss what you know about ‘allergic contact dermatitis’ in human.
  
6. Describe how metals are transferred from one trophic level to another within the terrestrial ecosystems