



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

**FACULTY: BASIC & APPLIED SCIENCES**

**DEPARTMENT: BIOLOGICAL SCIENCES**

**FIRST SEMESTER EXAMINATION**

**2019/2020 ACADEMIC SESSION**

**COURSE CODE: EMT 305**

**COURSE TITLE: METALS AND ENVIRONMENT**

**COURSE UNIT: 2 UNITS**

**DURATION: 2 HOURS**

*Dall 06/02/2020*

**HOD's SIGNATURE**

**NAME:.....**

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

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

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1. (i) What do you understand by the term 'metal pollution'?  
(ii) Explain the two (2) major sources of metal pollution in the environment.  
(iii) Highlight five (5) ways by which problem of metal pollution be ameliorated in the environment  
(20 marks)
  
2. (i) At the end of the year 1920, an outbreak of lead poisoning occurred in Australia among children who after a period of drought, licked raindrops on railings of houses. Briefly explain the possible sources of lead pollution in this case and discuss four (4) effects of lead pollution on the health of the children.  
(ii) Highlight five (5) effects of metal pollution on aquatic sediments  
(20 marks)
  
3. Write briefly on any four (4) following issues below:  
(i) Effects of heavy metals contamination on terrestrial ecosystems.  
(ii) Degree of metal pollution  
(iii) Metal pollution and the ecological food chain  
(iv) Analyses of cadmium in soil samples  
(v) Explain the effect of metal pollution on the soil fertility  
(20 marks)
  
4. (a) Write extensively on the classification of metals  
(b) Enumerate the factors that influence the fate of metal pollution in the environment  
(c) What are the characteristics of metals?  
(20 marks)
  
5. (a) Discuss the various factors that can influence metal toxicity  
(b) Explain briefly the origin of metals  
(c) What are the characteristics of metals in different aquatic environment?  
(20 marks)