



NATIONAL OPEN UNIVERSITY OF NIGERIA
FACULTY OF SCIENCES
DEPARTMENT OF ENVIRONMENTAL SCIENCE AND RESOURCE MANAGEMENT
Plot 91, Cadastral Zone, Nnamdi Azikwe Expressway, Jabi, Abuja
2021 EXAMINATIONS

COURSE CODE: EMT407

COURSE TITLE: PRINCIPLES OF TOXICOLOGY I

CREDIT: 2 Units

TIME ALLOWED: 2 Hours

Instruction: Attempt question number ONE (1) and any other THREE (3) questions. Question number one (1) carries 25 marks, while the other questions carry (15) marks each.

1a. Write a short note on Suspension Cell Culture (9 marks)

1b. Explain Monolayer Cell Culture (7 marks)

1c. What are the Indicators of Toxicity in Cultured Cells? (9 marks)

2a. Write short note on environmental toxins (5 marks)

2b. What is Fetal alcohol syndrome (FAS)? (10 marks)

3a. Explain Innate Immunity (12 marks)

3b. What are the major categories of manifestations of altered development? (3 marks)

4a. Explain the Cytochrome P450 Superfamily (7 marks)

4b. Explain the Incidence and Severity of Toxic Nephropathy (8 marks)

5a. Write a short note on the Erythrocyte (10 marks)

5b. Explain your knowledge of liver cancer (5 marks)