



NATIONAL OPEN UNIVERSITY OF NIGERIA
**PLOT 91, CADASTRAL ZONE, NATIONAL AZIKIWE EXPRESSWAY, JABI-
ABUJA**
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF ENVIRONMENTAL HEALTH SCIENCE
2025_2 EXAMINATIONS

COURSE CODE: EHS 411

COURSE TITLE: ENVIRONMENTAL TOXICOLOGY

COURSE UNIT: 3

TIME ALLOWED: 2 HOURS

TOTAL SCORE: 70 MARKS

INSTRUCTION: ANSWER ALL THE QUESTIONS

Question 1

- (a) Briefly define the following terms as pertaining to chemical Pathology
- | | |
|--------------------------------------|---------------|
| (i) Chemical | 1 mark |
| (ii) Pathology | 1 mark |
| (iii) Enzyme | 1 mark |
| (iv) Disease | 1 mark |
| (v) Aetiology | 1 mark |
| (vi) Predisposing causes of diseases | 1 mark |
| (vii) Serum | 1 mark |
| (viii) Pathogenesis | 1 mark |
| (ix) Diagnosis | 1 mark |
| (x) Exciting causes of disease | 1 mark |
- (b) Write a short note on the History of Chemical Pathology **5 marks**

Question 2

- (a) Briefly define the following terms as pertaining to Environmental Toxicology
- | | |
|-----------------------------------|---------------|
| (i) Acceptable daily intake (ADI) | 1 mark |
| (ii) Acute exposure | 1 mark |
| (iii) Acute or immediate toxicity | 1 mark |
| (iv) Additive effect | 1 mark |
| (v) Adjuvant | 1 mark |
| (vi) Antagonist | 1 mark |
| (vii) Bioavailability | 1 mark |
| (viii) Carcinogen | 1 mark |
| (ix) Chemical asphyxiant: | 1 mark |
| (x) Chronic exposure | 1 mark |
- (b) Differentiate between Toxicity, Toxicodynamics, Toxicogenomics, Toxicokinetics, Toxicology, Toxicovigilance, and Toxins **14 marks**
- (c) What does P.R. (per rectal) mean? **1 mark**

Question 3

- (a) Write a short note on the following terms:
- | | |
|----------------------------|----------------|
| (i) Descriptive Toxicology | 2 marks |
|----------------------------|----------------|

- (ii) Mechanistic Toxicology **2 marks**
- (iii) Regulatory Toxicology **2 marks**
- (iv) Experimental Toxicology **2 marks**
- (v) Theoretical Toxicology **2 marks**
- (b) Mention five (5) sub-divisions of environmental toxicology **5 marks**

Question 4

Write short notes about the following as an Effects of Pharmaceuticals on the Environment:

- (i) Estradiol (estrogen, synthetic hormone) **5 marks**
- (ii) Cardiovascular medicines **5 marks**
- (iii) Antibiotics **5 marks**