



CRAWFORD UNIVERSITY
FAITH CITY, IGBESA, OGUN STATE

2022/2023 HARMATTAN SEMESTER EXAMINATIONS

COLLEGE: NATURAL AND APPLIED SCIENCES

DEPARTMENT: BIOLOGICAL SCIENCES

UNIT: BIOCHEMISTRY

COURSE CODE: BCH 418 COURSE UNIT: 2 TIME ALLOWED: 2 HOURS

COURSE TITLE: BIOCHEMISTRY OF XENOBIOTICS

INSTRUCTION: ANSWER ANY FOUR QUESTIONS

- 1 (a) Define xenobiotics. *2 marks*
(b) Discuss renal xenobiotic elimination. *13marks*
2. Write EXTENSIVELY on the factors which affect the bioavailability of a xenobiotic. *15 marks*
- 3 Comment on the following:
(a) the significance of biotransformation in xenobiotic metabolism. *7.5 marks*
(b) the relationship between the dosage and route of administration of a drug *7.5 marks*
- 4 Discuss the effect of the route of drug administration on the pharmacokinetics of a drug. *15 marks*
- 5 Discuss EXTENSIVELY the different types of drug modifications catalysed by the enzymes of the cytochrome P₄₅₀ family in xenobiotic metabolism. Illustrate using TWO specific examples. *15 marks*
- 6 Comment on the following:
(a) the significance of the plasma level-time curve *7.5 marks*
(b) pharmacodynamics *7.5 marks*