## OLABISI ONABANIO UNIVERSITY DEPARTMENT OF BIOCHEMISTRY 2012/2013 RAIN SEMESTER EXAMINATION

COURSE CODE: BCH 318 NENOBIOTICS COURSE TITLE:

Answer any 4 questions INSTRUCTION:

TIME ALLOWED: 2 hours

- 1. Using specific examples and relevant biochemical pathway (where necessary) justify the following statements:
  - Biotransformation of xenobiotics terminates the half life of the agent,
  - Extensive first pass effect may lead to decrease efficacy of orally ii. administered drug.
  - Phase 11 reaction of drug metabolism may not necessarily be preceded iii. by phase 1.
  - It is not at all time that the final product of xenobiotic biotransformation is more polar than the parent compound. iv.
  - Biotransformation of xenobioties may lead to bioactivation V.
  - What are drug conjugants? i. 2. a.
    - List (only) the different types of xenobiotic conjugants. ii.
    - Describe five (5) different routes by which xenobiotics conjugants can be excreted and state the significance of each of the route. iii.
    - What do you understand by enterohepatic circulation? b.
      - Explain its significance in drug response.
  - 3. A nurse was given a drug and instructed to either administer it enterally or
    - parenterally, discuss this instruction under the following headings:
      - Classification of the mode of administration
        - The significance of each mode of administration
        - Advantages of each mode of administration ii.
        - Disadvantages of each mode of administration
        - iii. IV.