

FEDERAL UNIVERSITY OF TECHNOLOGY, OWERRI

SCHOOL OF SCIENCE  
DEPARTMENT OF BIOCHEMISTRY.

Time: 3 Hours.

Harmattan Semester Examination 2006/2007 Academic Session.

### BCH.411. Pharmacological Biochemistry.

Instruction; Answer five questions in this paper by answering at least one question from each section.

#### SECTION A

1. Discuss in detail, the metabolic factors affecting chemotherapeutic agents.
2. The tetracyclines are a group of drugs that have revolutionized the therapy of many diseases.
  - a. Discuss the biochemical and clinical actions of this drug.
  - b. Explain fully, the adverse effects of this group of drugs.

#### SECTION B

3. Discuss the various mechanisms through which drugs lose their original effectiveness and also comment on the remedies to the situation.
4. Discuss the mechanisms of defense employed by the host organism [e.g. man] to ward off an infection and the establishment of diseases.
5. Using specific examples, discuss the practice of traditional healing [herbalism] in your locality
  - b. Discuss the merits and demerits

#### SECTION C.

- 6a. Describe in detail how you would carry out LD<sub>50</sub> estimation in a stipulated group of laboratory animals.
  - b. Distinguish between therapeutic index and relative potency of a drug.
7. Describe concisely, the super families of receptors that characterize the action of drugs at the molecular level.

EUN, RNN, EAA.

