



KENYATTA UNIVERSITY
UNIVERSITY EXAMINATIONS 2008/2009
SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR
OF HEALTH (ENVIRONMENTAL HEALTH)

HEH 404: INTRODUCTION TO PHARMACOLOGY

DATE: MONDAY 30TH MARCH 2009

TIME: 11.00 A.M. – 1.00 P.M.

INSTRUCTIONS:

SECTION 1

- **Answer all Questions (20 marks)**

Q.1 Define the following terms:

- a) Pharmacology
- b) Bioavailability of a drug
- c) Biotransformation of a drug
- d) Chemotherapy
- e) Toxicology (5 marks)

Q.2 Describe a laboratory procedure that could be used to demonstrate the effect of barbiturates. (5 marks)

Q.3 Explain the principles behind prescription writing. (5 marks)

Q.4 Explain the basis of environmental toxicology. (5 marks)

SECTION 2

PART I (Compulsory (20 marks))

- Q.5 a) Discuss the distribution of drugs in the body. (10 marks)
b) Explain the reactions involved in the metabolism of a drug. (10 marks)

PART II

- **Answer any Two questions (30 marks)**

Q.6. Explain the following terms stating relevant examples.

- a) Drug dependence (5 marks)
b) Drug tolerance (5 marks)
c) Drug resistance (5 marks)

Q.7 Explain the mechanism of action of the following commonly used drugs:

- a) Sulphonamides (3 marks)
b) Penicillins (3 marks)
c) Streptomycin (3 marks)
d) Mebendazole (3 marks)
e) Artemisinin (3 marks)

Q.8 a) i) With example, state the (3) classes of insecticides in common uses. (3 marks)

ii) Explain the toxicity associated by each class. (6 marks)

iii) State the treatment given in case of toxicity by each class. (3 marks)

b) Explain the term chelating agent and state an example. (3 marks)

=====