



**TECHNICAL UNIVERSITY OF MOMBASA**  
**FACULTY OF APPLIED AND HEALTH SCIENCES**

**DEPARTMENT OF ENVIRONMENT AND HEALTH SCIENCES**

**DIPLOMA IN COMMUNITY HEALTH**

**DCH14M**

**APH 2209: FUNDAMENTALS OF PHARMACOLOGY**

**SEMESTER EXAMINATION**

MAY 2016

2 HOURS

---

**INSTRUCTIONS TO CANDIDATES**

*This paper consists of **FIVE** questions*

*Answer question **ONE** (compulsory) and any other **TWO** questions*

*This paper consists of two **PRINTED** pages*

**QUESTION ONE**

- a) Define the following terms:-
  - i. Pharmacology **(2 marks)**
  - ii. Bioavailability **(2 marks)**
- b) State Four advantages of enteral route of drug administration **(4 marks)**
- c) Differentiate between pharmacokinetics and pharmacodynamics **(4 marks)**
- d) Describe the following **(4 marks)**
  - i) Generic name of a drug
  - ii) Brand name of a drug
- e) Outline FOUR responsibilities of a health practitioner **(4 marks)**
- f) Give **FOUR** routes of drug excretion **(4 marks)**

g) Interpret the following medication order (**4 marks**)

Chlorpromazine 200 mg 2 tabs po bid

- i. How many milligrams of Tegretol are in each tablet? (**1 mark**)
  - ii. What is the dosage of Tegretol that needs to be given in milligrams? (**1 mark**)
  - iii. What is the route? (**1 mark**)
  - iv. How many times per day will you be giving the Tegretol? (**1 mark**)
- h) Name **TWO** routes of drug excretion (**2 marks**)

### **QUESTION TWO**

Describe five different routes of drug administration and give **TWO** advantages and **TWO** disadvantages of each route (**15 marks**)

### **QUESTIONTHREE**

Discuss the factors affecting drug absorption and bioavailability following oral administration of a drug (**15 marks**)

### **QUESTION FOUR**

- a) Outline any **FIVE** pharmacological classes of drugs and give two examples of each (**10 marks**)
- b) Distinguish between side effects and toxic effects (**5 marks**)

### **QUESTION FIVE**

- a) Describe **FIVE** types of medication errors (**10 marks**)
- b) Outline the components of a medication order (**5 marks**)

