



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**

**SCHOOL OF HEALTH SCIENCES**

**UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE**

**PUBLIC HEALTH/COMMUNITY HEALTH AND DEVELOPMENT**

**4<sup>TH</sup> YEAR 1<sup>ST</sup> SEMESTER 2018/2019 ACADEMIC YEAR**

**KISUMU CAMPUS**

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**COURSE CODE: HPD 3416**

**COURSE TITLE: INTRODUCTION TO PHARMACOLOGY**

**EXAM VENUE: STREAM: BSc Public/ Comm. Hlth & Dev**

**DATE: 15/08/19 EXAM SESSION: 2.00 – 4.00PM**

**TIME: 2.00 HOURS**

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**Instructions:**

- 1. Answer all the questions in Section A and 2 questions in Section B.**
- 2. Candidates are advised not to write on the question paper.**
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.**

## **SECTION A**

1. Define teratogenicity?
2. What is the World Health Organization (WHO) definition of a drug?
3. Briefly define drug synergism with examples.
4. Explain how a child dose can be calculated from adult dose.
5. What is the basic mode of action of chemotherapeutic agents?
6. Define the terms under dose, dose interval and therapeutic dose
7. "Drug index" is a source of drug information in East African, mention any three basic drug information that one can derive from it.
8. List any three reasons of adjusting doses in elderly as compared to adult dose.
9. Define what are side effects of a drug with examples?
10. With examples define over the counter medicine.

## **SECTION B**

- 1 Discuss how dose of drug can be calculated from body size, body surface area and age
2. Explain different mechanism of drug action.
3. Briefly discuss drug nomenclature (12 mks). Define official compendia with example (8 mks).
4. Discuss pharmacokinetic process of a drug in human beings (20Mks)