



**JARAMOGI OGINGA ODINGA UNIVERSITY OF  
SCIENCE AND TECHNOLOGY  
SCHOOL OF HEALTH SCIENCES**

**UNIVERSITY EXAMINATION FOR BACHELOR OF SCIENCE IN  
COMMUNITY HEALTH AND DEVELOPMENT**

**2<sup>ND</sup> YEAR 1<sup>ST</sup> SEMESTER 2013/2014 ACADEMIC YEAR**

**CENTER: BUSIA**

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**COURSE CODE:** HCD 3211  
**COURSE TITLE:** CRITICAL THINKING AND SCIENTIFIC WRITING  
**EXAM VENUE:**  
**DATE:**

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**Instructions:**

- 1. Answer ALL questions in Section A and ANY other 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.**

THIS PAPER CONSIST OF THREE (3) PAGES INCLUDING THE COVER PAGE

SECTION A – Answer all short answer questions – (30 marks)

1. Define Critical thinking in the most elaborate manner [3 marks]
2. Briefly explain four tools of critical thinking giving examples [3 marks]
3. State at least six Characteristics of a ‘critical thinker’ [3 marks]
4. Socrates is credited to have laid the foundation of what we today know as “Critical thinking paradigm”, briefly describe his contributions to the discipline? [3 marks]
5. The word "argument" is often used in everyday language to refer to a heated dispute, a quarrel, a shouting match. As a student of critical thinking, redefine the word "argument" appropriately [3 marks]
6. List all the steps in the creative problem solving process [3 marks]
7. In 1956 Benjamin Bloom and others developed six order of thinking, briefly explain six bloom’s taxonomy of thinking from the lowest to highest order of thinking [3 marks]
8. Giving example differentiate inductive reasoning from deductive reasoning showing which one is more superior to the other [3 marks]
9. Briefly explain the two parts that an argument must have? [3 marks]
10. There are several stages involved in critical reading, list at least six of them? [3 marks]

SECTION B – Essay Answer Question

Instruction

1. This section has four (4) essay question
  2. Answer any 2 questions
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1. Discuss the rationale of Critical thinking skills for student and the general population [20 marks]
  2. Define a logical fallacy exhaustively and describe at least 8 different type of logical fallacies you know of [ 20 marks]
  3.
    - a. Define logic elaborately emphasizing why it is not an empirical science just like mathematics [5 marks]
    - b. Giving examples explain the fundamental principle of logic [5 marks]
    - c. Giving examples explain the Trivial principle of logic [5 marks]
    - d. Giving examples explain the Principle of Counterexample [5 marks]
  4. If Critical Thinking is so important, why it is that uncritical thinking is so common including even the most educated person. Please describe the five powerful barriers to Critical Thinking [20 marks]

**Good luck!**