



**JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
**SCHOOL OF HEALTH SCIENCES**  
**UNIVERSITY EXAMINATION FOR DEGREE OF BACHELOR OF SCIENCE PUBLIC**  
**HEALTH / COMMUNITY HEALTH AND DEVELOPMENT**  
**2<sup>ND</sup> YEAR 1<sup>ST</sup> SEMESTER 2022/2023 ACADEMIC YEAR**  
**KISUMU CAMPUS**

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**COURSE CODE: HCB 1212**

**COURSE TITLE: CRITICAL THINKING AND SCIENTIFIC WRITING**

**EXAM VENUE: STREAM: (BSc. Comm Hlth & Dev)**

**DATE: EXAM SESSION: DECEMBER 2022**

**TIME: 2.00 HOURS**

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**Instructions:**

1. Answer all questions in section A (compulsory).
2. Answer any two questions from section B. Each question carries 20 marks

Answer all questions in section A – 30 marks.

**Question 1:** Describe briefly how information analysis and communication can improve personal and professional interactions. [6 marks]

**Question 2:** Differentiate between the statements provided in the table and provide an example in each case. [6 marks]

| Statement  | Description | Example |
|------------|-------------|---------|
| Facts      |             |         |
| Inferences |             |         |
| Judgments  |             |         |
| Opinions   |             |         |

**Question 3:** Evaluating evidence is critical to review of published literature or any information representation. Explain any 4 relevant issues you will consider in evaluation of evidence [6 marks]

**Question 4:** Explain the difference between each of the following paired terms as applied in academic writing:

a. Bibliography and List of references [3 marks]

b. Deductive reasoning and Inductive reasoning [3 marks]

**Question 5:** Describe the parts of good abstract. [6 marks]

## SECTION B – 40 MARKS

Answer any two questions. Question **ONE** is **COMPULSORY**– 20 marks each

1. In this question, assume that as public health professional, you have been newly posted to a new station. Describe a problem you'd like to solve. It can be an intellectual challenge, a research query, a communication issue, an ethical dilemma—anything that is of personal importance, no matter the scale. Explain its significance to you and what steps you took or could be taken to identify a solution. **(not more than two paragraphs)**. [20 marks]
2. Describe any **five** characteristics of a ‘**Claim**’ in argumentative essay [20 marks]
3. During literature review in a writing assignment, a systematic and rigorous search of literature is necessary.
  - a. Describe clearly how you would carry out the literature search. [14 marks]
  - b. Describe some of the steps necessary to minimize publication bias. [6marks]
  - c. Discuss how fallacious reasoning may affect institutional governance as well as citizens’ loyalty and trust. [20 marks]