

CHUKA



UNIVERSITY

---

**UNIVERSITY EXAMINATIONS**

**EXAMINATION FOR THE AWARD OF DEGREE OF DOCTORATE  
OF PHILOSOPHY IN MICROBIOLOGY AND BIOTECHNOLOGY**

**BOTA 910: RESEARCH METHODOLOGY**

**STREAMS: PhD**

**TIME: 3 HOURS**

**DAY/DATE: TUESDAY 13/8/2019**

**2.30 P.M. – 5.30 P.M**

---

**INSTRUCTIONS:**

- Answer any **THREE** questions
- Do not write on the question paper

**QUESTION ONE (20 MARKS)**

- (a) Discuss the importance of intellectual property rights. [8 marks]
- (b) Using hypothetical findings, write down a patents for it. [12 marks]

**QUESTION TWO (20 MARKS)**

- (a) Describe the research process [12 marks]
- (b) Literature review is an important part of proposal writing. Discuss [8 marks]

**QUESTION THREE (20 MARKS)**

Discuss the relationship between research and theory.

**QUESTION FOUR (20 MARKS)**

- (a) Compare quantitative and qualitative research approaches. [12 marks]
- (b) Discuss the characteristics of a good publication. [8 marks]

