

CHUKA



UNIVERSITY

UNIVERSITY EXAMINATIONS

THIRD YEAR EXAMINATION FOR THE AWARD OF DEGREE
OF BACHELOR OF SCIENCE

BOTA 391: RESEARCH METHODS AND SEMINARS

STREAMS: BSC

TIME: 2 HOURS

DAY/DATE: WEDNESDAY 15/04/2020

2.30 P.M. – 4.30 P.M.

INSTRUCTIONS:

- Answer ALL questions in section A and TWO questions in section B
- Do not write on the question paper
- Answer each question on a fresh page

SECTION A (SHORT ANSWER QUESTIONS) – 30 MARKS

1. (a) Differentiate between the following terms [3 marks]
 - (i) List of reference and bibliography
 - (ii) A text book and a journal
 - (iii) Controlled variables and confounding variables
- (b) ‘Scientific research is a cyclic process’, explain [2 marks]
2. Give five justifications for publishing in peer reviewed journals [5 marks]
3. (a) Explain three ways by which a researcher can avoid committing plagiarism [3 marks]
- (b) Outline four sources of literature for proposal writing [2 marks]
4. List five reasons for describing the research design in a research proposal [5 marks]
5. (a) Define hypothesis [2 marks]
- (b) List three features of a good hypothesis [3 marks]
6. (a) Define the term completely randomized research designs [1 mark]
- (b) List two conditions under which the design is appropriate [2 marks]
- (c) List four advantages of completely randomized research design [2 marks]

SECTION B: ESSAY QUESTIONS (40 MARKS)

7. In today's era, computer is an indispensable research tool. Discuss [20 marks]
 8. Discuss the importance of literature review in research [20 marks]
 9. Discuss the role of scientific research in national development [20 marks]
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