

COLLEGE OF HEALTH, AGRICULTURE & NATURAL SCIENCES

NACP 501: BIOSTATISTICS

END OF SECOND SEMESTER FINAL EXAMINATIONS

APRIL 2023

LECTURER: DR. S. CHAKEREDZA

DURATION: 3 HOURS

INSTRUCTIONS TO CANDIDATES

INSTRUCTION Answer All Questions from Section A

And Answer Three Questions from Section B

Page 1 of 3

SECTION A: Answer ALL questions

Question 1

1.	Define the term Biostatistics.	[3]
2.	Define population.	[2]
3.	Define sample.	[2]
4.	What is primary data?	[3]
5.	What is secondary data?	[3]
6.	What is research and its notable characteristics?	[5]
7.	What is statistics and its use?	[6]
8.	What is a Quantitative variable?	[2]
9.	What is a Qualitative variable?	[2]
10.	Define continuous variable.	[2]
11.	Define inferential statistics.	[2]
12.	Define descriptive statistics.	[2]
13.	For the values: 10, 8, 7, 2, 8, 7	[6]
	a. Find the mean	
	b. Median	

- o. moului
- c. Mode

SECTION B: Answer Three Questions

 Discuss the concept of randomization as it affects the conduct of an experiment and why it is important. [20]

2. Ai	nswer the following sections as one question	
a	. What is a variable?	[4]
b	b. What do you understand by the term range?	[4]
с	. What is standard deviation and how do you calculate it?	[4]
d	I. What is sample size?	[4]
e	. What do you understand by the term parameter?	[4]
b. c.	Write four main components of research proposal. When do we resort to the use of questionnaire as research instrument? Explain the two types of Questionnaire format briefly. Highlight the possible pitfalls in questionnaire construction.	[5] [5] [5]
4. a. b.	12, 26, 17.	3, 14, [20]
5.	a) Outline and briefly discuss the principles involved in experimental design.	[10]
	b) Discuss the different sampling methods and understand the purpose and import	tonoo

b) Discuss the different sampling methods and understand the purpose and importance of sampling and the advantages made possible by sampling. [10]

END OF EXAMINATION PAPER