

WOMEN'S UNIVERSITY IN AFRICA



Addressing gender disparity and fostering equity in University Education

FACULTY OF SOCIAL AND GENDER TRANSFORMATIVE SCIENCES

**BACHELOR OF SCIENCE HONOURS DEGREE IN SOCIOLOGY AND GENDER
DEVELOPMENT STUDIES
BACHELOR OF SCIENCE HONOURS DEGREE IN SOCIAL WORK
BACHELOR OF SCIENCE HONOURS DEGREE IN COMMUNITY
DEVELOPMENT**

MAIN PAPER

SS 223: QUANTITATIVE RESEARCH METHODS

INTAKE 25, 10 & 7: SECOND YEAR SECOND SEMESTER

DATE: FEBRUARY 2021 TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES

1. Answer **Question 1** in Section A and **any one question** from Section B.

SECTION A:

Question 1

a) Calculate mean, mode, median and standard deviation from the following data
21; 34; 42; 35; 37; 23; 25; 27; 21; 27; 34; 27; 29; 27

- (i) Mean; [1]
- (ii) Mode; [1]
- (iii) Median; and [1]
- (iv) Variance. [3]

b) Prepare a frequency distribution table using the following data. Show the classes (with intervals of 10), frequency, relative frequency, percentage frequency, and cumulative frequency. [5]

| | | | | | |
|----|----|----|----|----|----|
| 53 | 28 | 27 | 29 | 33 | 27 |
| 64 | 48 | 40 | 26 | 24 | 31 |
| 45 | 23 | 28 | 39 | 74 | 35 |
| 28 | 33 | 29 | 30 | 58 | 36 |
| 38 | 38 | 29 | 25 | 51 | 50 |
| 24 | 27 | 62 | 69 | 76 | 73 |

c) The table below shows monthly income (US\$) for non-skilled employees at a gold mine:

| Classes | Frequency |
|----------|-----------|
| 100-<150 | 4 |
| 150-<200 | 13 |
| 200-<250 | 5 |
| 250-<300 | 8 |
| 300-<350 | 10 |
| 350-<400 | 3 |

- (i) Calculate the mean, median, and mode; [9]
- (ii) Find the range; and [1]
- (iii) Variance and standard deviation. [9]

SECTION B:

Question 2

Elaborate on the philosophical assumptions guiding quantitative research. [20]

Question 3

Using examples, present the differences between inductive and deductive logic. [20]

Question 4

Examine the circumstances under which a researcher uses a (i) survey and (ii) experimental research design. [20]

Question 5

With the aid of examples discuss the major differences between qualitative and quantitative research. [20]

END