

**BOWEN UNIVERSITY IWO, OSUN STATE**  
**COLLEGE OF AGRICULTURE, ENGINEERING AND SCIENCE**  
**STATISTICS PROGRAMME**  
**B.Sc. DEGREE 2022/2023 SECOND SEMESTER EXAMINATION**

**COURSE CODE:** STA 222    **COURSE TITLE:** Laboratory for Inference I  
**DATE:** 20/06/2023    **TIME ALLOWED:** 3 Hours    **CREDITS:** 3  
**INSTRUCTION:** Answer questions ONE and ANY OTHER THREE

**Question 1**

- a. Write 10 characteristics of a good questionnaire (10 marks)
- b. List the steps involved in analyzing a Regression equation on SPSS. (7.5 marks)
- c. List the steps involved in analyzing a One-way Analysis of Variance on SPSS. (7.5 marks)

**Question 2**

A researcher is interested in knowing if the cashless policy has impact on the spending habit of Bowen university students. Help the researcher to develop an appropriate questionnaire. (15 marks)

**Question 3**

An SPSS data file titled "NEONATAL JAUNDICE DATA\_1" is located on the desktop of the system you are using. From the information, Obtain Chi square value between the following variables and the bar chart plot for each combination of variables:

- i. A and Q1 (3 marks)
- ii. A and Q3 (3 marks)
- iii. M and Q1 (3 marks)
- iv. H1 and Q3 (3 marks)

(3 marks for variable view and data view)

**Question 4**

A researcher is interested in obtaining some descriptive information of the age and Weight of children in a particular community. The following is the data collected from the survey conducted.

Respondents	Age(years)	Weight(kg)
1	5	20.5
2	3	18.4
3	6	19.0
4	1	9.5
5	2	14.5
6	1	11.6
7	5	18.3
8	4	18.2
9	3	15.4
10	1	13.1
11	5	22.5
12	3	19.6
13	6	22.2
14	5	18.3
15	4	19.8

Using SPSS:

Obtain the skewness, Kurtosis, mean, standard deviation Minimum and maximum value and copy the result to Microsoft word document. (15marks)

### Question 5

A Microsoft word file titled “STA 222 test 20222023” is located on the desktop of the system you are using. Input the questionnaire in SPSS and save the work with your name and matric number on the desktop of the same system. (15marks)

### Question 6

Below is the extract of the data collected by a researcher to measure the knowledge of people in a particular community about the recent outbreak of Ebola.

Respondents	Age	Gender	Marital	Educational	Religion	Heard of	Source of
-------------	-----	--------	---------	-------------	----------	----------	-----------



			Status	Attainment		Ebola?	Information
1	32	Male	Married	Primary	Islam	Yes	Social media
2	24	Male Female	Married	No Education	Christia nity	Yes	Radio
3	19	Male	Single	Secondary	Traditio nal religion	Yes	Television
4	44	Female	Married	Tertiary	Islam	Yes	Radio
5	43	Male	Married	Primary	Christia nity	Yes	Social media
6	24	Female	Single	Secondary	Christia nity	Yes	Social media
7	41	Male	Married	Secondary	Islam	Yes	Newspaper
8	33	Male	Single	Primary	Islam	Yes	Television
9	45	Male	Widow	Primary	Christia nity	Yes	Radio
10	25	Female	Single	Secondary	Christia nity	Yes	Social media

- i. Obtain the Crosstabulation table between the following variables:
- Gender and marital status. (5marks)
  - Religion and Source of information. (5marks)
  - Educational attainment and Heard of Ebola? (5marks)

**Note:**

**Copy and Save your SPSS on Microsoft word with your MATRIC NUMBER**