

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

COURSE CODE: STA 202      COURSE TITLE: Introduction to Socio-economic Statistics  
DATE: 19/06/2023      TIME ALLOWED : 2 Hours      CREDITS: 2  
INSTRUCTION: Answer QUESTION ONE and any other TWO questions.

- 1a. The table below shows the average price and quantities of some household commodities demanded daily in Iwo for 2021 and 2022.

| Commodities | Prices |      | Quantities |      |
|-------------|--------|------|------------|------|
|             | 2021   | 2022 | 2021       | 2022 |
| Rice        | 30     | 40   | 900        | 800  |
| Yam         | 60     | 65   | 1000       | 1200 |
| Garri       | 20     | 45   | 1500       | 2500 |
| Beans       | 80     | 120  | 500        | 300  |

Calculate:

- (i) Laspeyres and Paasche's price and quantity relative for 2022.
- (ii) Weighted average of price and quantity relatives for 2022.
- (iii) Simple aggregate index for 2022
- (iv) Mean of price relatives for 2022

(20 Marks)

- 1b. Given the prices of Palm oil for the past 6 years in the following table:

| Year   | 2018 | 2019 | 2020 | 2021 | 2022 | 2023  |
|--------|------|------|------|------|------|-------|
| Prices | 4600 | 4900 | 5200 | 6200 | 7500 | 10000 |

Calculate fixed chain and chain based indices, (base-2018).

(10 Marks)

2. Write Short notes on each of the following:

- (i) Official statistics (ii) Economic statistics (iii) Social statistics
- (iv) Statistical system (v) Centralised statistical system.

(20 Marks)

- 3a. Mention any four uses of economic and social statistics

(8 Marks)

- 3b. Enumerate any three functions each of the National Bureau of Statistics (NBS) and National Population Commission of Nigeria.

(12 Marks)

- 4a. Discuss any two sources of economic and social statistics.

(8 Marks)

- 4b. Explain three elements of Nigeria National Statistical System.

(12 Marks)