



National Open University of Nigeria
14/16 Ahmadu Bello Way, Victoria Island, Lagos.

School of Science and Technology

Course code: DAM363

Course title: Economic statistics

Credit unit: 2 credit units

Time Allowed: 2 ½ Hours

Instruction: Answer question one (1) and any three (3) questions. Each question carries 17.5 marks.

1. The weight of a group of students in training class is given below:

65 40 60 46 51 55 59 63 68 53 35
47 53 42 63 67 62 64 70 37 56 57
43 56 48 51 58 63 65 39 49 64 62
53 59 63 50 48 72 67 56 61 64 61
56 52 49 62 41 58 53 69 36 59 63

(a) Prepare a group frequency table with class interval 35-39,40-44, 45-49; etc

(b) Calculate:

- i. The Mean
- ii. The Mean Deviation
- iii. The Standard Deviation (17.5 marks)

2a. Define statistics (3.5 marks)

2b. Explain the following

- I. Cluster Sampling
- II. Stratified Sampling
- III. Judgment Sampling
- IV. Quota Sampling (14 marks)

3a. List and explain the two types of variables (5 marks)

3b. Define the following terms:

- i. Data
- ii. Information
- iii. Population
- iv. Sample
- v. Variable (12 ½ marks)

4a. List and explain the nature of statistic errors (6 marks)

4b. Below is a table that shows distribution of cars and respective speed, use the table to calculate

- i. Mean
- ii. Mean deviation

Speed	10-20	20-30	30-40	40-50	50-60
Frequency	32	38	63	29	38

(11 ½ marks)

5a. List the advantages and disadvantages of median marks) (15

5b. Define mode with an example marks) (2 ½

6a. Define dispersion (4 marks)

6b. List 5 disadvantages of mode marks) (7 ½

6c. List 4 disadvantages of range (6 marks)