



NATIONAL OPEN UNIVERSITY OF NIGERIA
Plot 91, Cadastral Zone, Nnamdi Azikiwe Express Way, Jabi - Abuja
FACULTY OF MANAGEMENT SCIENCES
DEPARTMENT OF BUSINESS ADMINISTRATION
2024 1 EXAMINATION

Course Code: BUS722

Course Title: BUSINESS STATISTICS

Time Allowed: 2 Hours

Instruction: Attempt question ONE and any two (2) questions of your choice. Question 1 carries **30Mark** while other carry **20Marks** each.

Question 1

The table below shows the breakdown monthly expenditure of a salary earner

S.N	EXPENDITURE	AMOUNT (IN NAIRA)
1	Rent	6,000
2	Food	8,000
3	Transportation	2,000
4	Clothes	4,000
5	Savings	10,000

- (a) Present the data in a Pie Chart **(5 marks)**
- (b) Draw a Bar Chart to represent the data **(5 marks)**
- (c) Present the data in an Histogram **(10 marks)**
- (d) Write short notes on the following:
 - (i) Class Limit
 - (ii) Class Boundaries
 - (iii) Class Width
 - (iv) Class Mark **(10 marks)**

Question 2

- (a) Examine each of these types of Observation:
 - (i) Participant observation
 - (ii) Systematic observation
 - (iii) Mechanical observation **(10 marks)**
- (b) Analyse briefly – Micro-Statistical Information and Macro-Statistical Information **(10 marks)**

Question 3

The weight to the nearest kilogram, of a group of 50 students in a college of technology are given below:

65,	70,	60,	46,	51,	55,	59,	63,	68,	53,	47,
53,	72	53,	67,	62,	64,	70,	57,	56,	73,	56,
48,	51,	58,	63,	65,	62,	49,	64,	53,	59,	63,
50,	48,	72,	67,	56,	61,	64,	66,	52,	49,	62,
71,	58,	53,	69,	63,	59.					

- (a) Prepare a Group Frequency Table with class intervals 45-49, 50-54, 55-59. Etc. (5 marks)
- (b) Using an assumed mean of 62 or otherwise, calculate the, mean and the standard deviation of the grouped data. (10 marks)
- (c) Correct your answer in question (b) above to one decimal place. (5 marks)

Question 4

A man P has 5 red, 3 blue and 2 white buses. Another man Q has 3- red, 2 blue and 4 white buses. A bus owned by P is involved in an accident with a bus belonging to Q.

- (a) Calculate, the probability that two buses are not of the same colour.

A man travels from Nigeria to Ghana by air and from Ghana to Liberia by ship. He returns by the same means. (10 marks)

- (b) The man has 6 airlines and 4 shipping lines to choose from. In how many ways can he make his journey without using the same airlines or shipping line twice? (10 marks)