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NATIONAL OPEN UNIVERSITY OF NIGERIA Plot 91, Cadastral Zone, NnamdiAzikiwe Express Way, Jabi– Abuja FACULTY OF MANAGEMENT SCIENCES DEPARTMENT OF PUBLIC ADMINISTRATION 2021_2 EXAMINATION***

COURSE CODE:PAD 813COURSE TITLE:QUANTITATIVE METHODS FOR PUBLIC ADMINISTRATIONCREDIT UNITS:3TIME ALLOWED: $2^{1/2}$ Hrs

INSTRUCTION:

- 1. Indicate your Matriculation Number clearly
- 2. Attempt question one (1) and any other three (3) questions Four questions in all
- **3.** Question one (1) is compulsory and carries 25marks, while the other questions carry 15marks each.
- 4. Present all your points in coherent and orderly Manner

(1a) What is Quantitative Technique? 6 marks

(b) Quantities techniques are essentially valuable in four areas of management decisions. State

the four areas. 4 marks.

(c) The frequency of the daily distribution of sweet cola soft drink in Lagos, Nigeria is given below:

Days	Quantity
Monday	4,000000
Tuesday	3,000 000
Wednesday	4,000 000
Thursday	4,000 000
Friday	5,000 000
Saturday	8,000 000
Sunday	7,000 000

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(i) Determine the mean distribution. 10 marks

- (ii) What is the modal distribution? $2^{1/2}$
- (iii) What is the median distribution? $2^{1/2}$
- (2)a Define Arithmetic Mean. 5 marks

(**b**) Using the formula of Arithmetic mean compute the mean of the following distribution: 5, 2, 4, 3, 5, 7, 8, 6, 9, 10, 12, 11, 15, 3. **10 marks**

- (3)a) What is mode? 5 marks
- (b) Define Range. 5 marks

(c) Determine the range of the following distribution: 200, 100, 400, 100, 800, 700, 200, 2000, 700, 1000. **5 marks**

(4) Given a set data on monthly sales Sweet Cola, the mean is $\mathbb{N}180,000$, the mode is $\mathbb{N}95,000$ and the standard deviation is $\mathbb{N}25,000$. Determine the Pearson's No. 1 coefficient of Skewness.15 marks.

(5)a) Briefly explain the concept of forecasting. 3 marks

(b) Outline the basic steps in forecasting. 12 marks