



NATIONAL OPEN UNIVERSITY OF NIGERIA
Plot 91, Cadastral Zone, NnamdiAzikiwe Express Way, Jabi- Abuja
FACULTY OF MANAGEMENT SCIENCES
DEPARTMENT OF PUBLIC ADMINISTRATION
2023_2 EXAMINATIONS_

COURSE CODE: PAD 813

COURSE TITLE: QUANTITATIVE METHODS FOR PUBLIC ADMINISTRATION

CREDIT UNITS: 3 TIME ALLOWED: 3 Hrs

INSTRUCTIONS:

1. Attempt question Number one (1) and any other three (3).
2. Question number 1 is compulsory and carries 25 marks, while the other questions carry 15 marks each
3. Present all your points in coherent and orderly manner

(1a) Define the concept of Quantitative Technique (2 marks)

(b) List and discuss the importance of Quantitative Technique in management decisions of an organization (8 marks).

(c) Below is the distribution of the company products in Abuja, Nigeria:

Month	Quantity
Jan	4, 000 000
Feb	3, 000 000
Mar	4, 000 000
Apr	4, 000 000
May	5, 000 000
Jun	8, 000 000
Jul	7, 000 000

(ii) What is the modal distribution? (5 Marks)

(iii) What is the median distribution? (5 Marks)

Q1d. 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. (5 marks)

Q2a. Consider the following raw data to determine the media Score (5 Marks):

Raw data (in =N=) $X_1 = 950$; $X_2 = 300$; $X_3 = 1000$; $X_4 = 950$; $X_5 = 850$ and $X_6 = 750$

Q2b. Giving the following table on the share prices of a quoted company over a period of 60 days:

Use the data below to calculate the media (10 Marks)