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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

## **2020\_1 EXAMINATION**

<b>COURSE CODE:</b>	PAD813			
<b>COURSE TITLE:</b>	QUANTITATIVES METHODS FOR PUBLIC ADMINISTRATION			
<b>CREDIT UNITS:</b>	3			
<b>INSTRUCTION:</b>	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			
TIME ALLOWED	$2^{1/2}$ Hrs			

1 (a) What is quantitative technique? 5 marks

(b) AZ company is in the production of exercise books ranging from 20 to 80 leaves but recently decided to produce 100 leaves exercise books. Market survey indicates that the new exercise book could be priced between \$100-200. The possible prices are \$100, \$120, \$120, \$150, \$200. The market survey predicts that the quantities sold at the prices of \$100, \$120, \$150 and \$200 would be \$2000, \$1,500, \$1000 and \$500. From the table below, where P = price and Q = Quantity, determine the Revenue (R) in each of the colume 1, 2, 3, and 4. **16marks** 

	1	2	3	4
Р	<del>N</del> 100	<del>N</del> 120	<del>N</del> 150	<del>N</del> 200
Q	2,000	1,500	100	500
R				

(C) At what revenue is the lowest quantity sold? 4 marks

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2 (a) State the four ways in which quantitative technique are essential valuable to management decisions. 10marks

(b) What are the two tools that basically constitutes quantitative analysis? 5 marks

**3.** XY company produced plates at a variable cost of \$100 and fixed costs of \$500,000. Each plate sells for \$200 and \$1000 plates were sold in one week.

- (a) What quantity of plates will be sold in one month? 5marks
- (b) Determine the profit of the company. 10marks

4.(a) What is mode? 5marks

(b) Determine the modal price of the following distribution of prices of items in a grocery store. **10marks** 

105, 104, 101, 103, 102, 124131, 104129125127126121122123101104102104105106107109104101102105104107120

5(a) Briefly explain measures of variability or dispersion. 5marks

(b) As indicated in the course module outlines the five major measures of variations?

10marks

(6) (a) What is set enumeration? **5 marks** 

(b) State the four general procedure for solving enumeration problems. 10marks