

NATIONAL OPEN UNIVERSITY OF NIGERIA PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI, ABUJA FACULTY OF MANAGEMENT SCIENCES 2023_2 EXAMINATIONS_

COURSE CODE:

MBA816

CREDIT UNIT: 3

COURSE TITLE:

Quantitative Methods for Management

TIME ALLOWED: 21/2Hrs

INSTRUCTION:

1. Attempt question number one (1) and any other (3) questions.

2. Question number 1 carries 25 marks, while the other three (3)

questions carry 15 marks each.

3. Present all your points in coherent and orderly manner.

1a. Simplify $3\sqrt{50} - 5\sqrt{32} + 4\sqrt{8}$

10marks

b. Solve the following fractions with bracket 3/8(y+7) + 5/6(2y-3)

10marks

c. Explain the Term Ratio

5marks

2a. In a market, 21/4 kg. of coffee cost N1.75. What quantity of coffee can be bought for N1.55 in 6marks the market?

b. The electrical resistance of a wire varies inversely as the square of its radius. Given that the resistance is 0.4 ohms when the radius is 0.3cm, find the resistance when radius is 0.45cm.

9marks

3a. Discuss problem of data collection method in statistics.

6marks

b. Taiwo and Kehinde are to share N60 such that Kehinde has N12 less than Emma. Find the 9marks share of each person.

4a. Find the sum of the first 28 terms of an arithmetic progression whose series is given as 3 + 10 5marks + 17 + ... n

b. A pure water company awarded contracts to various contractors for constructing a factory 10marks house as follows.

Carpenter 25,000

Bricklayer 20,000