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NATIONAL OPENUNIVERSITY OF NIGERIA PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESS WAY, JABI – ABUJA FACULTY OF MANAGEMENT SCIENCES DEPARTMENT OF BUSINESS ADMINISTRATION 2019 1 EXAMINATION

COURSE CODE: MBA816

CREDIT UNIT: 3

COURSE TITLE: QUANTITATIVE METHODS FOR MANAGEMENT

TIME ALLOWED: 21/2HRS

INSTRUCTIONS:

1. Attempt Question One (1) and any other three (3) questions

2. Question 1 carries 25 marks, while the other questions carry 15 marks each.

3. Present all points in coherent and orderly manner

- **1a.** Discuss the following:
 - i. Natural numbers. (3 marks)
 - ii. Whole numbers (3 marks)
 - iii. Integers (3 marks)
 - iv. Rational numbers (3 marks)
 - v. Irrational numbers (3 marks)
- **b.** Change 86 to base 2. (6 marks)
- **c.** Evaluate the following:

$$(i) - 20 - (-24)$$
 (2 marks)

$$(ii) - 13 - 16$$
 (2 marks)

2a. List and discuss three basic types of fraction in mathematical analysis. (10 marks)

b. Simplify the following: 5y - y (5 marks)

6 3

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3a. Solve the equation

i.
$$X^4 \times X^7$$
 (3 marks)

iii.
$$3c^3e^2 \div 2c^2e^2$$
 (3 marks)

- **b.** Discuss inverse variation (6 marks)
- **4a.** Discuss geometric progression (5 marks)
- **b.** Find the solution to simultaneous equation by substitution:

The demand for bread in market x and y is given as follows

$$3x - 4y = 19$$
(1) (5 marks)
 $x - 2y = 5$ (2) (5 marks)

- **5a.** Explain the basic concept of descriptive and inferential statistics. (**5 marks**)
- **b.** Discuss inductive, deductive and correlation statistics. (10 marks)
- **6.** Given the income distribution of a sample of 50 customers as follows:

Income	Number of
(N '000s)	Subscriber
20 - 30	20
31 - 41	15
42 - 52	10
53 – 63	5

- (i) Compute the arithmetic mean of the incomes (6 marks)
- (ii) Compute the Median income (9 marks)