NATIONAL OPEN UNIVERSITY OF NIGERIA

PLOT 91, CADASTRAL ZONE, NNAMDI AZIKIWE EXPRESSWAY, JABI, ABUJA

FACULTY OF MANAGEMENT SCIENCES

2023_1 POP EXAMINATION

COURSE CODE: MBA 816   **CREDIT UNIT: 3**

COURSE TITLE: Quantitative Methods for Managers

TIME ALLOWED: 2½ Hours

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.

QUESTION 1
(a) Define and discuss the Number system
(b) Discuss the three basic types of fractions.

QUESTION 2
(a) State the rule for multiplication of fractions.

(b)   Solve: $4/6 \text{ X } 8/10 = ?$

QUESTION 3
(a) Explain the term: Ratio, with 5 examples.
(b) If a ratio is multiplied by the same number, how does it affect the ratio?

QUESTION 4
Explain the term: variation in mathematics.

QUESTION 5
Linear equations are widely used by practitioners in industry for a variety of reasons. Explain what they are with examples.

Find the value of y in the following equation.
y(10 – 2) = 80.

QUESTION 6
    (a) What is quadratic equation
    (b) With examples, discuss arithmetic progression