



NATIONAL OPEN UNIVERSITY OF NIGERIA
Plot 91, Cadastral Zone, Nnamdi Azikiwe Express Way, Jabi - Abuja
FACULTY OF MANAGEMENT SCIENCES
2021_2 EXAMINATION

COURSE CODE: MBA 816

COURSE TITLE: QUANTITATIVE METHODS

CREDIT UNIT: 3

INSTRUCTION: 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 25 marks, while the other questions carry 15 marks each.

4. Present all your points in a coherent and orderly Manner

TIME ALLOWED: 2½ Hours

1. The following data represents the number of students as against the ages of the student in post graduate program, Age: 20, 21, 22, 23, 24, 25; and No of students: 80, 75, 60, 40, 30, 15 respectively. Determine the correlation coefficient (r).

25 Mks

2. Given the data group into a frequency distribution below

Monthly Rentals of Halls	600- 799	800-999	1000-1199	1200-1399	1400-1599	1600-1799	1800-1999	2000-2199
No of Units	3	7	11	22	49	24	9	4

- i) What is the mean monthly rental for the group data?
ii) What is the median monthly rental for the group data?

15 Mks

3. Mention and briefly discuss five basic techniques used in statistical sampling?

15 Mks

- 4a. Briefly discuss the two types of inferential statistics

10 Mks

- 4b. What is geometric progression?

5 MKs

5. A man starts work with an annual salary of ₦14, 000 and received annual increase of ₦480 a year. (i) How much did he receive for the first four years?

10 Mks

- (ii) How much will he receive in the tenth year of employment?

5 Mks