



NATIONAL OPEN UNIVERSITY OF NIGERIA
91, Cadastral Zone, Nnamdi Azikiwe Express Way, Jabi-Abuja
FACULTY OF MANAGEMENT SCIENCES
2021_2 EXAMINATION⁴⁵⁶⁷⁸

Course Code: BUS 722

Course Title: BUSINESS STATISTICS

Credit Unit: 2

Instructions:

- 1. Indicate your Matriculation Number clearly**
- 2. Attempt Question 1 and any other two (2) questions**
- 3. Question 1 is compulsory and carries 30 marks while the other 2 questions carry 20marks each**
- 4. Present all your points in coherent and orderly manner**

Time Allowed: 2 Hours

- 1a. Discuss the nature of statistical data **(15MARKS)**
- 1b. Mention and explain the sources of data. **(15MARKS)**
- 2a. Mention the advantages and disadvantages of median **(10MARKS)**
- 2b. Mention the merits and demerits of arithmetic mean **(10MARKS)**
- 3.

Sales (units)	33	35	24	61	52	45	65	82	29	63	50	79
No of sections	3	7	6	6	10	12	12	13	12	13	14	15

- a. Obtain the coefficient of correlation **(10MARKS)**.
- b. Comment on your result? **(10MARKS)**
4. Suppose there are 75 students in a class with the students offering at least one of the subjects Chemistry Physics and Biology: 34 students offer Physics, 36 students offer Chemistry, and 41 students offer Biology. 13 students offer both Physics and Chemistry 14 offer Physics and Biology and 15 offer Biology and Chemistry. Represent the data on a Venn diagram and find the number that offer:
- (i) All subjects (ii) Biology only (iii) A subject only (iv) Two subjects only. **(20MARKS)**