



REFORMED CHURCH UNIVERSITY

FACULTY OF COMMERCE

RESEARCH METHODS AND STATISTICS

HRCU 201

PART 2 SEMESTER 2 EXAMINATION

TOTAL MARKS [100]

DATE: JULY 2022

TIME: 3 HOURS

INSTRUCTIONS

1. This paper has *six (6)* questions
2. Answer question *one (1)* and *any* other **three (3)**
3. Each question carries **25 marks**
4. Start each question on a new page
5. Candidates may use non-programmable, noiseless and cordless calculators.
6. Candidates are provided with tables of statistical formulae.

1. Discuss any five ethical principles that are important when you are doing research in inclusive education. (25 marks)
2. Examine any five characteristics of a good research giving practical examples. (25marks)
3. Compare and contrast the following terms as applied and used in research;
 - a. Validity and reliability (5 marks)
 - b. Triangulation and pilot study (5 marks)
 - c. Delimitation and limitations of the study (5 marks)
 - d. Census and sample (5 marks)
 - e. Quantitative and qualitative (5 marks)
4. Discuss any 4 types of non probability sampling techniques, citing the conditions under which each of them can be applied in research in your field of study. (25 marks)
5. The following sample observations were randomly selected.

X	5	3	6	3	4	4	6	8
Y	13	15	7	12	13	11	9	5

You are required to;

- a) Calculate the mean of X. (2marks)
 - b) Calculate the mean of Y. (2marks)
 - c) Compute the standard deviations of X and of Y. (8marks)
 - d) Find Z-scores when X is 9 and Y is 14 (4marks)
 - e) Calculate correlation coefficient of the two variables and comment on it. (5marks)
 - f) Calculate the coefficient of determination and comment on your result. (4marks)
- 6 a. Explain the important points in designing a questionnaire. (15 marks)
 - b. Discuss the pros and cons of a questionnaire survey. (10 marks)

End of Paper