



PAN AFRICA CHRISTIAN UNIVERSITY

END OF SEMESTER EXAMINATION

PMFT721: STATISTICS II

**Instructions**

- i. Use Statistical Package for Social Sciences (SPSS) to Work out the following.*
- ii. Use the questionnaire provided to work out the following questions.*
- iii. Answer all questions.*
- iv. Upload the SPSS data file and the MS Word document for grading.*

**Question 1**

- a) Construct an SPSS data file using the questionnaires provided. (2 marks)
- b) Use a pie chart to indicate the distribution of respondents by County. Indicate the percent distribution of each. (2 marks)
- c) Construct a table in APA format showing the frequency and percentage distribution of the respondents according class. (2 marks)
- a) Construct a bar graph showing the distribution of the respondents according to school category. (2 marks)
- b) Use Cronbach coefficient alpha to compute the reliability of the instrument. (2 marks)

**Question 2**

Use custom tables to construct frequency distribution tables for the following.

- a) Teacher- Learner relationship. (3 marks)
- b) Learner class participation in classroom activities. (3 marks)
- c) Student Cohesiveness. (3 marks)

**Question 3**

Using your SPSS data file compute variables for each of the following.

- a) Teacher- Learner relationship. (3 marks)
- b) Learner class participation in classroom activities. (3 marks)
- c) Student Cohesiveness. (3 marks)

#### **Question 4**

- a) Use Pearson correlation coefficient to find out the relationship between teacher- learner relationship learner class participation in classroom activities in public secondary schools in Embu and Nairobi Counties. (4 marks)
- b) Use t-test to compare student cohesiveness in public secondary schools in Embu and Nairobi Counties. (4 marks)
- c) Fit a regression model to show the contribution of Teacher- Learner relationship and Learner class participation in classroom activities to student cohesiveness Student Cohesiveness in public secondary schools in Embu and Nairobi Counties. (4 marks)