THE CATHOLIC UNIVERSITY OF EASTERN AFRICA

A. M. E. C. E. A

MAIN EXAMINATION

AUGUST - DECEMBER 2018 TRIMESTER

FACULTY OF EDUCATION

DEPARTMENT OF POSTGRADUATE STUDIES IN EDUCATION

REGULAR / ODEL PROGRAMME

ED 508: DATA PROCESSING AND COMPUTER APPLICATION

Date: DECEMBER 2018	**Duration: 3 Hours**
INSTRUCTIONS: Answer any FOUR Questions	

Q1. a) Using employee data on SPSS, conduct an independent samples t test to test the hypothesis that there is no significant statistical difference between the current salaries of clerical officers and those of custodians. (save your data as Q1data) **(5.5 marks)**

b) Testing your hypothesis at 0.05 significant level, discuss the findings and give your conclusion **(12 marks)**

Q2. a) Using employee data in SPSS co nduct a Chi-square test for independence to test the hypothesis that there is no relationship between employees' level of education and their current salary. (save your data as Q2data) **(5.5 marks)**

b) Using a significant level of 0.05 to test your hypothesis, discuss the findings and give your conclusion **(12 marks)**

Q3. Using employee data on SPSS, conduct a Pearson correlation to determine whether there is any correlation between the following variables. For each correlation give the direction, strength and implications of the correlation. (save your data as Q3data) **(2.5 marks)**

i) Current salary and minority classification **(5 marks)**

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ii)   Minority classification and employment category   **(5 marks)**

iii)   Employment category and current salary   **(5 marks)**

Q4.   Analyze the merits and demerits of using a computerized system in processing and analyzing data in a research study.   **(17.5 marks)**

Q5.   a)   The questionnaire attached overleaf was prepared for a particular sample of subjects in the field. Code and attach the questionnaire to your answer booklet.   **(2.5 marks)**

        b)   Key in the data into SPSS. (Save your data as Q5data).   **(5 marks)**

        c)   Using employee data on SPSS, generate the descriptive statistics for the educational level among the employees. (Save your output as Q5boutput).   **(3 marks)**

        c)   Give your observation of the outcome   **(5 marks)**

        d)   What purpose do the descriptive statistics serve in data analysis?   **(2 marks)**

END

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