

UGANDA MARTYRS UNIVERSITY

FACULTY OF SCIENCE

DEPARTMENT OF MATHEMATICS/ STATISTICS

UNIVERSITY EXAMINATIONS
SEMESTER I, 2013/14

THIRD YEAR EXAMINATIONS FOR BACHELOR OF SCIENCE
(GEN)

STA3103: STATISTICAL COMPUTING (PRACTICAL)

DATE: 16TH DECEMBER 2013

TIME: 2:00 – 5:00 PM

Instructions:

- i) Read through the paper carefully.
 - ii) Do NOT write on the question paper
 - iii) Provide all the outputs for all procedures
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Qn.1

Peter is a third year statistics student at UMU carrying a research on "Determinants of household expenditure"

His objectives were to find out if

- (a) children ever born has an effect on household expenditure
- (b) age of a household head has a relationship with household monthly expenditure
- (c) education level of household head has a relationship with a household expenditure

REQUIRED

Use Epi-data soft ware and design a questionnaire that can be used to capture the data to answer your questions that can achieve your objectives.

Qn.2

In a household study survey in one village in Sheema District, the data below were collected and later presented in the table as shown below.

TABLE OF RESULTS

Sex of Hh/head	Age of Hh/head	Educ. Level of Hh/head	Children ever born	Monthly income(1000.Ug.shs)	Monthly expenditure (1000.Ug.shs) Y
Male	38	PhD	5	780	350
Female	42	Prim	8	370	200
Male	33	Sec	7	350	180
Female	28	No. educ	3	400	182
Female	29	Prim	8	320	200
Female	26	Degree	9	430	175
Male	54	Diploma	3	400	250
Male	28	Sec	6	250	100
Male	39	Degree	4	420	220
Female	51	Prim	5	310	175
Male	68	Diploma	5	380	210
Male	31	PhD	7	890	450
Female	49	Masters	4	710	369
Female	46	Sec	6	328	210
Male	47	Prim	2	240	140

Assuming you are hired to analyze this data.

- (i) Enter the data in Microsoft-Excel

- (ii) Import the data into STATA soft ware
- (iii) From the out put carried out from STATA,
 - (a) Obtain the descriptive statistics
 - (b) Obtain the frequency tables for each variable
 - (c) Run a correlation matrix
 - (d) Draw a bar chart showing the distribution of respondents by education level.

Interpret and discuss the results obtained in (iii) above and write a report on one page on his topic and also as a student of statistics to answer his objectives (*Save your work on desktop*).

END