UGANDA MANAGEMENT INSTITUTE

POSTGRADUATE DIPLOMA IN MONITORING AND EVALUATION (DME): KLA; MRA; GULU, MBL:

SECOND SEMESTER EXAMS 2017/2018

MODULE DATA ANALYSIS MANAGEMENT FOR MONITORING AND EVALUATION

Date: Friday 5 October 2018

Time: 09.00 AM – 12.00 NOON

INSTRUCTIONS

1. Answer FOUR Questions.
2. Question ONE of Section A is compulsory and carries 40 marks.
3. Answer any other THREE Questions from Section B. Each question carries 20 marks.
4. Write clearly and legibly.
5. Do not write anything on the question paper.
6. Do not take Mobile Phones into the examination room.
7. Follow the instructions of the Examination Supervisor.
8. Indicate questions answered on the Answer Sheet in the column of Questions.

This paper consists of 5 printed pages.

-GOOD LUCK-

SECTION A: COMPULSORY (40 MARKS)

QUESTION ONE

Classroom Blocks Construction Project in Kwena District

Kwena is District in Eastern Uganda currently has 52 secondary schools with a fast growing student population. The number of students has more than doubled in the past decade due to the Universal Secondary Education policy. The classroom shortage has been a serious issue that one classroom serves 150 students making their learning environment not conducive. Additionally, the school s on average have two stances of pit latrines which serve an average of 250 girl students; it makes toilets excessively congested forcing girl students to leave the classroom for a long time. This has greatly affected the academic performance of girls in the District.

The classroom block construction project that was implemented in 2013 is intended to construct classroom blocks and toilet blocks, and install furniture so that schools in the District can provide students with a better learning and sanitary environment as well as improve girl students' academic performance.

After your successful completion of the M/E course, you have been approached by Kwena District Education office to conduct an evaluation of the Classroom Block Construction Project

Required:

a) State the purpose of the evaluation. **[2 marks]**

b) Agree on the data that will help you to effectively evaluate the project's performance. **[8 marks]**

c) Establish the categories of stakeholders that will avail valid information for the evaluation. **[4 marks]**

d) Suggest clearly how you will select the respondents. **[8 marks]**

e) Decide the data acquisition and collection methods needed to carry out the evaluation. **[8 marks]**

f) Suggest how you will analyze the data collected. **[6 marks]**

g) Discuss the strategies the District authorities will apply to effectively disseminate the finding of the evaluation. **[4 marks]**

SECTION B: ANSWER ANY THREE QUESTIONS FROM THIS SECTION

QUESTION TWO

Officials in the Ministry of works and Transport, conducted a survey to assess factors determining the taxi fares in Kampala City. In the process of analyzing their data, a Pearson correlation between two variables was generated at 95% confidence level as shown below;

Correlations

		Taxi Fares	Number of Taxis on the Road
Taxi Fares	Pearson Correlation	1	-.765**
	Sig. (2-tailed)		.000
	N	30	30
Number of Taxis on the Road	Pearson Correlation	-.765**	1
	Sig. (2-tailed)	.000	
	N	30	30
**. Correlation is significant at the 0.01 level (2-tailed).			

(a) Identify the variables under study, suggest their possible measures and why. State the study sample. [**4 marks]**

(b) Explain the purpose of computing a correlation coefficient between variables. **[3 marks]**

(c) As a person knowledgeable in Data management and analysis, provide a clear interpretation of the Pearson correlation results generated above. [**6 marks]**

(d) What conclusions can you make out of the results and suggest two relevant recommendations to the of Ministry of works and Transport based on the above findings. **[7 marks]**

QUESTION THREE

SPSS can be used to analyze data collected from surveys, tests, observations and others statistics. Among its' features are modules for descriptive statistics and inferential statistics.

(a) Describe clearly any **two** descriptive statistics and any **two** inferential statistics. **[4 marks]**

(b) **"**An assessment of the normality of data is a prerequisite for many statistical tests." Discuss this statement using relevant examples. **[4 marks]**

(c) Discuss the role of data management and analysis in the function of Monitoring and Evaluation. **[12 marks]**

QUESTION FOUR

a) Code & count, and theme & explore are two methods of analyzing qualitative data for Monitoring and Evaluation. Discuss these methods of data analysis using relevant evaluation examples. **[12 marks]**

b) Discuss the application of comparative analysis and narrative analysis for project evaluation. **[8 marks]**

QUESTION FIVE

Discuss the application of the following techniques in data analysis for Monitoring and Evaluation

a) Chi-square test

b) T-test

c) One way ANOVA

d) Correlation analysis

e) Regression analysis **[20 marks]**

QUESTION SIX

(a) Import **"M&E.xls"** from the Desktop to SPSS and make modifications to the variables as hereunder. **[4 Marks]**

Variable	**Value**	**Measure**
Ids:	None	Assign appropriate
Gender:	1-Male 2-Female	Assign appropriate
Education:	1-Primary, 2- O-level, 3-Advanced 4 Degree	Assign appropriate
Religion: 1- Catholic	2-Protestant 3-Born again 4- Moslem	Assign appropriate
Age	None	Assign appropriate

(b) What is the number and percent of Females and Males? Explain your observations.

[3 Marks]

(d) What is the number and percent of Catholic with advanced? Explain your statistics.

[4 Marks]

(d) Record **age** into **age_group** following the procedures below;

1=12-16, 2=17-21, 3=22-26, 4=27-31, 5=32 and above **[4 Marks]**

(e) Use Chi square to test whether there is a significant difference between the expected and the observed frequencies in **age_group** and **Religion**.

Explain your statistics. **[5 Marks)**