UNIVERSITY REGULAR EXAMINATIONS

2013 /2014 ACADEMIC YEAR

1ST YEAR 1ST SEMESTER EXAMINATIONS

(MAIN EXAMINATION)

DEGREE OF MASTER OF EDUCATION IN CURRICULUM AND INSTRUCTION

COURSE CODE: CIT 805

COURSE TITLE: RESEARCH METHODOLOGY

DATE: 22ND APRIL, 2014   **TIME: 9:00A.M.-12 NOON**

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INSTRUCTIONS TO CANDIDATES:

Answer Question ONE and any THREE Questions

Question One.

a) Define the term Research. (4mks)

b) State any four purposes of research in education. (4mks)

c) Briefly differentiate between the following terms as used in research

      i) Validity/Reliability. (4mks)

      ii) Probability Sampling/Non Probability Sampling. (3mks)

      iii) Measurement/Instrumentation. (3mks)

d) List the four levels of measurement in research. (2mks)

e) Describe any four different types of variables. (4mks)

Question Two.

a) What is a research Hypothesis? (2mks)

b) List the two types of research hypotheses. (2mks)

c) Explain any four characteristics of a hypothesis. (4mks)

d) A researcher is studying on the smoking pattern in a community in relation to gender differentials. Write one possible hypothesis for this study. (2mks)

e) Distinguish between types one error and type two errors in hypothesis testing. (2mks)

Question Three.

a) The table below gives the observed and predicted frequencies of weekly motor accidents in Western Province of Kenya.

Observed	30	15	25	40	28	45	30	28	15	35
Predicted	25	18	20	22	15	30	25	16	12	24

      i) Compute the Chi-Square value for the predictions. (5mks)

      ii) Were the predictions significant at a = 0.05.
            (4mks)

      iii) Explain whether you will reject or accept the null hypothesis for the prediction above.

            (3mks)

Question Four.

      i) What is data collection? (2mks)

      ii) Name any four methods of data collection that you would use to collect information on a person's job satisfaction. (4mks)

      iii) List two advantages and one disadvantage of using each of the methods listed above for the listed purpose. (6mks)

Question Five.

The table below shows the capacity of passenger service vehicles plying the Eldoret-Kitale road.

Class Interval	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64
Frequency	35	40	48	100	125	87	43	36	34	30	26

Compute the:-

    i)   Mean.   (4mks)

    ii)   Standard Deviation.   (6mks)

    iii)   Interpret result in (ii) above.   (2mks)

End.