## M2 Key answers of Research Methodology Exam

Question one: Give succinct answers to the following questions. (in clear and short way)

(06pts)

1. Research can be inductive or deductive. Explain.

Research can be inductive when hypotheses are generated in qualitative research while it can be deductive when it focuses on testing hypotheses such as in experimental design.

2. How can you test validity and reliability of a questionnaire?

Questionnaire validity can be tested by experts or uing a software (Pearson correlation) whereas reliability may be tested by Cromback alpha coefficient.

3. What should you consider if you decide to use an observation?

We should consider what to observe, the degree of structure of the observation, the context, its duration, the timing, the choice of the appropriate recording and whether

- 4. Suppose you intend to use a test statistics in your study, what should you take into consideration? Statistical tests are used based on the type of data, the number of variables, the sample and whether the population is normally ditributed or not.
- 5. Which statistical test can you use for ordinal data?

<u>The Mann-Whitney U test.</u>/ Wilcoxon/Friedman/Kruskal-Wallis (one is enough)

6. Which questions should be avoided in constructing a questionnaire? (name four)

Leading questions, negative constructions, double-barrelled questions, ambiguous and loaded words and sentences, items that are likely to be answered in the same way by eveybody should be avoided.

Question two: Coding is an important phase in analyzing the data obtained from a semi-structured interview. Explain briefly the steps to be followed in that phase.

(03pts)

The steps to be used in coding the data from a semi-structured interview include open coding in which the text is broken into discrete parts, then selective coding where connections are made between the codes. This

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is followed by selective coding where the researcher identifies a core category which is the central theme of the research.

A short anwers (2 sentences or 3): Open coding/axial coding and selective coding.

Question three: What is the difference between experimental research and correlational research? (03pts)

Both experimental research and correlational research are quantitative. However, the former manipulates an independent variable to test its effect on a dependent variable while the former aims to find out if there is a relationship between variables; its direction (whether it is positive or negative) and its strength.

Question Four: Write a paragraph in which you compare thematic analysis and content analysis (08pts)

Scoring: 4 pts for the content/2 for the organization/2 for the language

- 1. Topic sentence
- 2. Definition
- 2. Similarites

**Differences** 

3. Concluding sentences

Best wishes

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