

Exams Guide

QUESTION 1

Description of various measurement scales and examples.

QUESTION 2

- a) Able to identify test of differences (e.g. T-test)
- b) Assumption
- c) Able to identify the size of the sample
- d) Propose a null and alternative hypothesis for the test.
- e) Interpreting the result (SPSS output) with reference (accept or reject null hypothesis).
- f) Understanding of the different error type (Type 1 or 2 error)
- g) If the assumptions of the test (eg. T-test) are broken what is the alternative non-parametric test. (Wilcoxon signed ranks test). Why? (data is skewed and there is clearly a difference in the variances of the groups ...)
- h) Understanding of the use of the different test of differences (eg. One-way repeated measures ANOVA)

QUESTION 3

- a) Identify variables that are positively correlated and the level of significance.
- b) Which level of data has been used? (eg. Interval, Nominal...)
- c) How many subjects were there?
- d) State a null hypothesis linking the variables. Is the null hypothesis rejected or supported? Explain your answer.
- e) What does the correlation between variables imply?

QUESTION 4

Regression analysis.

- a) Identify the research question (could be an arbitrary statement)
- b) What does the F-statistic in the table tell you?
- c) Comment on R^2 in context
- d) Interpret the results (briefly) quoting evidence from the table