

COMPULSORY QUESTION:

QUESTION 1:

Suppose that ZEGU students are asked to identify their major personality types of lecturers (Agreeableness, Conscientiousness, & Neuroticism), and lecturer warmth-competence (Warm-Competent, Cold-Competent, or Cold-Incompetent) and indicate their preferences [20].

Suppose that their responses are represented in the following table. Test the independence of Personality Type and Warmth-Competence.

	Warm-Competent	Cold-Competent	Cold-Incompetent
Agreeableness	50	37	26
Conscientiousness	40	45	24
Neuroticism	28	46	48

QUESTION 2:

Compute an independent samples t test for the following data sets:

Data set A: 1	2	2	3	3	4	4	5	5	6
Data set B: 1	2	4	5	5	5	6	6	7	9

[20]

QUESTION 3:

Knowing that load shedding of electricity has an impact on students' exam scores, Dr Shumba hypothesized that students who live in Chiwaridzo with the most of average hours of load shedding are likely to have low ratings on quality of work produced (thus predicting a negative or inverse relationship between these variables in the population).

Test the hypothesis that there is no rank order relationship between the average hours of load shedding (*loadshed*) and the quality rating of students' work (*workquali*) [20].

Student	Loadshed (hours)	Workquali (on scale of 1(poor) to 10 (good))
1	13	3
2	5	6
3	8	3
4	24	3
5	21	7
6	30	9
7	20	10
8	20	6
9	12	5
10	7	7
11	8	4
12	25	7

QUESTION 4:

Using practical example, write short notes on any **FOUR (4)** of the following:

- a. Central tendency
- b. Ordinal data
- c. Inferential statistics
- d. Survey research
- e. Standard deviation
- f. Population

QUESTION 5:

Utilising relevant examples, identify the different types of sampling in quantitative social research and demonstrate how they are utilised.

END OF THE PAPER