Ministry of Higher Education & Scientific Research

Salahaddin University-Erbil

College of Administration and Economics Department: Statistics and Informatics

Stage: First



Subject: Principle of Statistics Date: 14 / 01 / 2024

Time: 2 Hours

Final Exam- First semester: First Trial 2023- 2024

Q1\\ A\\Define each of the following

(15 Marks)

- 1- Statistics
- 2- Population
- 3- Variable
- 4- Data

B\\ What are the differences between the following?

- 1- Homogeneous Population and Heterogeneous Population
- 2- Discrete Variables and Continuous Variables

 Ω_2 \\A\\ Suppose there are 32 elements in the population select a sample of 8 elements?

Q2\\A\\ Suppose there are 32 elements in the population select a sample of 8 elements? using Systematic Random Sampling (20 Marks)

B \setminus From the following Data:

 X_i : 2, 4, 1, 3 Y_i : 3, 2, 5, 2

Find

1)
$$\sum_{i=2}^{4} x_i y_i$$
, 2) $\sum_{i=1}^{4} (x_i - 2)$, 3) $\prod_{i=1}^{4} 5x_i$, 4) $\log \prod_{i=1}^{3} y_i$

Q3\\ The following data represent persons number of (20) family in small town.

3, 5, 8, 10, 12, 2, 7, 5, 11, 9, 5, 6, 13, 15, 14, 4, 5, 4, 3, 5

(15 Marks)

Find the following:

- 1- Frequency Distribution Table?
- 2- Ascending Cumulative Frequency distribution (ACF)?
- 3- Steam and Leaf?

Q4\\ From the following Frequency Distribution Table find Frequency Histogram and Frequency curve? (10 Marks)

Classes	2-4	4-6	6-8	8-10	10-12
fi	2	4	5	4	1

Good Luck

Shakar M. Azeez Assist. Lecturer Assist. Prof.D. Bekhal S. Sedeeq
Head of department