

Basics Of Statistics-Sem 4

UNIT 1: Introduction to Statistics

*What is Statistics? Explain its significance in daily life.

*Differentiate between:

a) Primary data and Secondary data

b) Population and Sample

*What are the types of data?

*Write the applications of statistics in Data Science.

*What is classification and tabulation of data?

UNIT 2: Measures of Central Tendency

*Define and explain:

a) Mean

b) Median

c) Mode

*Calculate mean and median for a small dataset.

*What are the advantages and disadvantages of mean, median, and mode?

*Difference between grouped and ungrouped data.

*Problems based on mode for grouped data.

UNIT 3: Measures of Dispersion

*What is dispersion? Why is it important?

*Define and compute:

a) Range

b) Standard Deviation (SD)

c) Mean Deviation

*Derive the formula for variance and SD.

*What is the coefficient of variation?

*Solve: A problem on SD or range from given values.