

**UDHNA CITIZEN COMMERCE COLLEGE &
SPB COLLEGE OF BUSINESS ADMINISTRATION &
SMT. DIWALIBEN HARJIBHAI GONDALIA COLLEGE OF BCA & I.T.
CLASS: S.Y.B.C.A. (SEM – III)
SUBJECT: 302- STATISTICAL METHODS AND DATA ANALYSIS
ACADEMIC YEAR 2026-27**

Home Assignment

Assignment – 1

1. Explain in detail the installation of R and RStudio.
2. Explain in detail Subsetting and Filtering Data in R (With examples).
3. Explain in detail Measures of Central Tendency (Mean, Median and Mode). Also find the Range, Variance and Standard Deviation for the following continuous frequency distribution:

Age	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No. of persons	15	15	23	22	25	10	5	10

Assignment – 2

1. Explain Population and Sample with examples. Also explain Random Sampling and Stratified Sampling.
2. Explain the following graphs in detail:

- Histogram
- Box Plot
- Scatter Plot

Also write how to construct them

3. Explain the basic concepts of Probability Theory:

Random Experiment, Sample Space, all the Events, properties and formulas.

Instructions:

- Assignment must be **self-handwritten** with blue ink ball pen only.
- Assignment must be **uploaded through the Udhna College Application**.
- The assignment submission date will be announced soon.



