

semester - VImportant QuestionsUNIT - I

- ① S/T $P(E_0) = P(E_1)$ & $V(\bar{y}_0) = \frac{N-1}{nN} S^2$, $V(\bar{y}_1) = \frac{N-1}{N} S^2$
- ② census vs sampling survey
- ③ Types of sampling
- ④ Non-sampling error vs sampling error.
- ⑤ principles of sampling survey

UNIT - II

- ① $E(\bar{y}_{st}) = \bar{Y}_N$, $E(\bar{y}_{sys}) = \bar{Y}$.
- ② $V(\bar{y}_{st})$ in stratified random sampling and systematic random sampling
- ③ optimum allocation & proportional allocation
- ④ S/T $V(\bar{y}_{st})_{opt} \leq V(\bar{y}_{st})_{prop} \leq V(\bar{y}_{st})_r$
- ⑤ S/T $V(\bar{y}_{st}) \leq V(\bar{y}_{sys}) \leq V(\bar{y})_r$

UNIT - III

- ① components of time series
- ② Link relative method
- ③ Moving averages method
- ④ seasonal indices by ratio to trend
b) ratio to moving average
- ⑤ 3 selected points method
- ⑥ semi avg & graphical method

UNIT - IV

- ① Importance of SQC in industry
- ② Dimensions of quality
- ③ \bar{x} - bar chart
- ④ R - Chart
- ⑤ np - chart a) fixed b) varying sample size
- ⑥ p - chart a) " b) "
- ⑦ c - chart
- ⑧ u - chart
- ⑨ σ/s chart

Short Questions

- ① Non sampling treatments, sources
- ② Population, sd, sampling distn, Sample parameter, statistic
- ③ systematic random sampling
- ④ stratified
- ⑤ simple random sampling with replacement & without replacement
- ⑥ Time series, & uses
- ⑦ models of time series
- ⑧ process & product control
- ⑨ 3 σ - control limits
- ⑩ Applications of c-chart
- ⑪ Defects vs defective items
- ⑫ schewartz control charts
- ⑬ SQE
- ⑭ quality
- ⑮ Trend