(5) Inferential Statistics

as Deriving conclusions & prediction from déta.

i) Point Estimation

s Use of sample data to measure a single value which serves as an approximative of unknown population parameter.

Eg: - Calculing mean from Rample, and taking it as near of whole population.

4 ways to / find this (i.e estimates). - Method of moments. to find point ethnetes. maximum of likelihood. 3 Bayes Estimates. -D Best unbiased estimators. > Internal Estimation. (m. imp)

ii) Interval Estimete.

Here, 3 An interrel, (01) range of values, used to estimate a populate parameter 91 called interrel estimate, instead of a point.

Diagram shows

Chip bln point

Confidence

Rg: - Point -> I will seech in 27 mins Interval -> I will oceah in 25-30 mins accurate).

proach'ally.

Confidence Inserral & Morgin of error

& 95 the meaning of confidence, that the estimate interval contains the mean (14).

confidence interval \$ 100 & 200. y ... You are 990/0 sure your confidence level = 0.99 means lies 6/n 100 & 200.

* Margin of error - Diff 6/10 (extineted and latural population parameter.)

n Estimeted lul of confidence can be calculated by Z-score.

(V) Kypothesis Testing

- > Technique used to determene whether there is enough cridence in a data sample to infer that a certain condition holds true for an entire population.
 - 7) Threshold relul. -> 'Considering on situation whether prob
 in above or below threshold relue
 hypo 90 rej (00 accepted.
- in Can be Neell Kypotherix -> Mo -> Attemption correct

 Alt Kypotheris -> Ma -> Attemption disappropried.