Unit-I

-) Each distibution definition along with

- Formula
- Properties
- mean, variance

-) Finite population correction factor $= \sqrt{\frac{N-n}{N-1}}$

-) Find the value of finite population correction factor for $n=10$, $N=1000$

$$= \sqrt{\frac{1000-10}{1000-1}} = \sqrt{\frac{990}{999}} = \sqrt{\frac{110}{111}} = 0.9954$$

-) P.M.F, P.D.F definition

-) Continous & discrete random variable definitions
- Variance & mean formula

-) Random variable, Probability definitions

-) Sample space, trail, Experiment definitions

Unit 2

-> Define Null Hypothesis (Also, alternative Hypothesis & Hypothe

-> If sample size is small, write confidence limits for single mea

-> Define random sampling

-> Test statistic for single variance

-> Critical region definition

-> If sample size is large, write confidence limits for single me

-> How many different samples of size 2 can be choosen fro a finite population of size 25 (Ans:- $25C_2 = 300$)

-> Population & Sample definitions (Along with parameters)

-> Type I & Type 2 errors and I.O.S.

-> Small Simple & large sample

-> Define sampling distribution

-> Each ~~distri~~ test formula, C.L. and inferences

Unit-3

-> Each test formula along with

- Inference
- Confidence limits

-> If they asked us to find out the critical region we should write confidence limits

-> Maximum error estimate of proportion P => $E = z_{\alpha/2}\sqrt{\frac{Pq}{n}}$

Unit-4

-> Each test formula along with

- Inference

-> Define run

-> Define trend

-> Define time series

-> Advantages of nonparametric tests

-> Regression line definition. write regression line of y on x.

-> Define Rank Correlation

-> Uses of chi-square test