

Semester - IIIImportant questionsUNIT - I

- ① Types of correlations
- ② State and prove properties of correlations
- ③ Derive
$$S = 1 - \frac{6 \sum d_i^2}{n(n^2-1)}$$
- ④ S/T $-1 \leq S \leq +1$
- ⑤ Regression line y on x (or) x on y
- ⑥ State and prove properties of regression

UNIT - II

- ① Multiple and partial correlation coefficient
- ② consistency of attributes
- ③ S/T $Q = \frac{2Y}{1+Y^2}$
- ④ S/T $(A_1, A_2, \dots, A_n) = (A_1) + (A_2) + \dots + (A_n) - (n-1)N$

UNIT - III

- ① χ^2 - distribution with applications & properties
- ② t - " " " " " "
- ③ F " " " " " "
- ④ A good estimator consist.

UNIT - IV

- ① MLE & MME
- ② problems on MLE & MME
- ③ problems on C.I

Short Question

- ① scatter diagram
- ② interval estimator
- ③ sufficient estimator solving problems
- ④ problems on unbiased and consistency
- ⑤ Cramer's Rao inequality
- ⑥ Neyman factorization
- ⑦ Likelihood function
- ⑧ population, sample, parameter + statistics
- ⑨ Attributes
- ⑩ order, class, frequency,
- ⑪ problems on attributes
- ⑫ ~~***~~ Fitting st. line, parabola, power curve and exponential curve (Long Question)
- ⑬ PLs (Principle of Least Square)
- ⑭ curve fitting + bivariate data
- ⑮ probable error
- ⑯ Karl Pearson's correlation coefficient
- ⑰ correlation ratio
- ⑱ Angle determination
- ⑲ regression coefficient
- ⑳ relationship b/w χ^2 t and F distributions