Research submission: From 31 May to 7 June 2020

a) **Write a research project in ONE of the following topics:**

Topic No. 1

Sampling disribution of mean. One sample,estimation: mean two sided ;error, the best estimator (σ^2 *known,unknown*).Test hypotheses for mean one-two sided(σ^2 *known,unknown*).Using applied example to show that.

Topic No. 2

Sampling disribution of difference between means.Two samples:Estimation difference between two means two sided ($\sigma_1^2, \sigma_2^2 unknown$).Test hypotheses for difference between two means one-two sided ($\sigma_1^2, \sigma_2^2 unknown$).Using applied examples to show that.

Topic No. 3

Sampling disribution of variance. Test independent. Linear regression: estimation parameters,confidence interval for parameters, test hypotheses for parameters. Using applied examples to show that

b) **Notes: please, your research must contain the following elements:**

- μ , $\sum$, $\sigma^2, \sigma_1^2, \sigma_2^2,$ χ^2

GOOD LUCK,

Examiner(s)
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