Research based Questions. All the Questions are compulsory!

Word Limit in questions should be adhered to.

Section A

Answer the following Questions in not more than 150 words. Each Question carries 10 Marks.

1. **Describe the Tukeys test for the non additivity for a two way layout with the one observation per cell.**

2. **Briefly discuss about the official statistical system in India**

3. **Explain the Lahiris method for the selection of the PPS sample.**

4. Define the index number and give its uses & limitation.

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5. State and discuss the important points which have to be considered in the construction of index number.

6. **Explain the method of the generalised least square for the estimating the parameters of the linear model, stating the assumptions underlying it.**

Answer the following Questions in not more than 250 words.

Each Question carries

7. **Define a sudden point for the any general function in the two variables. state and prove the necessary and sufficient condition for the existence of the saddle point in the pure strategies for the two person zero - sum rectangular game.**

8. **What is the reliability of the test score? explain the test - retest method and parallel forms methods of determining the test reliability mentioning their merits and limitations.**

Worksheet: