

2019

UG 3rd Semester (General) Examination

STATISTICS

Paper - DSCICP

(Introduction to Statistical Interem Lab)

[Practical]

Full Marks : 20

Time : 3 Hours

*The figures in the margin indicate full marks.
Candidates are required to give their answers
in their own words as far as practicable.*

Answer all questions.

1. Tow types of batteries are tested for their length of life and the following data are obtained :

	Sample size	Mean life in hours	Variance
Type - A	9	600	121
Type - B	8	640	144

Is there a significance difference in the two means ?

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[Turn Over]

2. A random sample of size 20 drawn from a normal population gives a sample mean of 42 and sample standard deviation of 6. Test the hypothesis that the population mean is 44. Also obtain 95% confidence limits for the population mean.
3. Below are given the yields in gm. per plot (plot size = $\frac{1}{2000}$ acre) for three varieties of seed cotton.

Variety 1	Variety 2	Variety 3
77	73	126
70	70	98
63	46	78
95	71	134
84	61	79
101	40	137
88	65	109
81	47	106

Test wheter the varieties differ significantly among themselves. 5

4. Pratical Note Book. 2
5. Viva-Voce. 3
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