

2018
2nd Semester
STATISTICS
(Generic Elective)
PAPER—GE2P
(Practical)

Full Marks : 20

Time : 2 Hours

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Answer all questions.

1. The number of defective bolts in each of 500 packs contains 100 bolts are obtained

Number of defective bolts	0	1	2	3	4	5	6	7	8	Total
Number of packs	54	160	130	92	37	22	4	0	1	500

Fit a Poisson distribution to the above data.

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2. Assume that the length of time between charges of a cellular phone is normally distributed with a mean of 10 hours and a standard deviation of 1.5 hours. Find the probability that the cell phone charge will last between 8 and 12 hours. Given that

$$\int_{-1.33}^0 \frac{e^{-\frac{z^2}{2}}}{\sqrt{2\pi}} dz = 0.4082 . \quad 5$$

3. Laboratory Note Book. 2
4. Viva-Voce. 3
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