UG/2nd Sem/STAT/G/19(Pr)

2019

B.Sc. (General)

2nd Semester Examination

STATISTICS

Paper - DSC 1BP

[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.

Answer all questions :

1. The following distribution relates to the number of accidents to 647 women working on high explosive shells during a 5 week period.　　　　7

Number of accidents	Frequency
0	447
1	132
2	42
3	21
4	3
5	2

[Turn Over]

Fit a poisson distribution to the data and comment.

2. Suppose the lifetime (in hours) of electronic tubes of a certain type is normally distributed with mean $\mu = 200$ hours and $\sigma = 25$ hours.

   What is the probability that a tube will function :

   (i) for at least 220 hours?   2

   (ii) for at most 150 hours?   2

   (iii) between 100 hrs. and 240 hrs.?   4

3. Laboratory Note Book.   2

4. Viva-Voce.   3