

2018
CBCS
1st Semester
STATISTICS
(Honours)
PAPER—C2P
(Practical)

Full Marks : 20

Time :

The figures in the right-hand margin indicate full marks.

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

Probability and Probability Distribution Lab.

Answer all questions.

1. When the first proof of a book containing 250 pages was read, the following distribution of misprints was obtained :

No. of misprints per page	0	1	2	3	4	5	6 or more
Frequency	139	76	28	4	2	1	0

Fit a poisson distribution to the above data.

5

2. In a doll factory, machines M_1 , M_2 and M_3 manufacture respectively 45%, 25% and 30% of total output. Of these outputs, 6%, 8% and 3% are defectives. A doll is chosen at random from the produce and found to be defective what is the probability that it was manufactured by M_1 ?

5

3. Calls come to the customer care centre of a mobile company at an average rate of 3 calls per minute. Assuming that the number of incoming calls follow a Poisson distribution, find the probability that

(a) no calls come in a certain minute.

(b) 3 or more calls come in a 15 second time interval.

2+3

4. Laboratory Notebook.

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5. Viva-voce.

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