

B.Sc. Semester-II General Examination, (CBCS), 2022

St. Paul's Cathedral Mission College

STATISTICS (GENERAL) PRACTICAL

PAPER- GE-2/CC-2

Time: 2 hours and 30mins

Full Marks: 30

The figures in the margin indicate full marks

- 1) In the course of an experiment 20 mosquitoes were put in each of 150 jars and were subsequently subjected to a dose of D.D.T. After several hours the number alive in each jar was counted and the following frequency distribution was obtained. Fit an appropriate distribution to the data and comment.

No. of mosquitoes alive	0	1	2	3	4	5	6	7	8	9	10
No. Of jars	1	10	12	17	25	27	24	15	11	7	1

(10)

- 2) If a random variable X follows Poisson distribution satisfying $P(X=1) = P(X=2)$. Then find the value of $P(X>1/X<3)$, Expectation and Standard deviation of X . **(4)**
- 3) The mean yield for one-acre plot is 662 kilos with a s.d. 32 kilos. Assuming normal distribution, how many one-acre plots in a batch of 1000 plots would you expect to have yield
- (i) Over 700 kilos. (ii) Below 650 kilos, and (iii) what is the lowest yield of the best 100 plots? **(6)**
- 4) Practical notebook. **(5)**
- 5) Viva-voce. **(5)**

The End

