

DMPT Make up Quiz Name:

Roll No:

Marks:15

Answer all questions. Each carries 5 marks

1. Given that X has the Geometric distribution with $(20, 0.45)$. Calculate $P(X < 19)$, $E[5X+5]$, $\text{Var}[5X-5]$.
2. A box contains 8 items of which 2 are defective. A person draws 3 items from the box. If X denotes the number of defective items. Find the probability mass function and $F_x(1)$
3. The probability of getting wrong telephone calls in a day is given by e^{-10} . Determine the probability that you get more than 2 wrong calls in a day.