**Probability & Statistics (MA-150)**

**Quiz # 4**

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Q: An urn contains 4 white and 3 black balls. A sample of 5 balls is selected from the urn without replacement. Let X denotes the number of white balls contained in the sample, then find the probability distribution of X.

**Solution: -**

N = no. of White Balls + no. of Black Balls = 4 + 3 = 7,

n = no. of Balls drawn from the Urn = 5,

X = no of Targeted Balls = no. of White Balls = 4

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| X | 0 | 1 | 2 | 3 | 4 |
| P (X) |  |  |  |  |  |
| P (X) | Undefined | Undefined |  |  |  |