DMPT (Quiz 1) SEC A (SET 1) Name: Roll No: Marks:15

Answer all questions. Each carries 5 marks

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1. Given that X has the distribution Bin(20,0.45).Calculate P(X<19),E[4X+5],Var[4X-5]

2. A random sample of four policy holders is taken from a group of 8, comprising 3 men and 5 women determine probability mass function, calculate $F_x(3)$

3. The probability of getting no misprint in a page is $e^{-4.}$Determine the probability that a page of a book contains more than 2 misprints

DMPT (Quiz 1) SEC A (SET 2) Name: Roll No: Marks:15

Answer all questions. Each carries 5 marks

1. Given that X has the distribution Bin(20,0.65).Calculate P(X>19),E[3X-2],Var[3X-2]

2. A random sample of four policy holders is taken from a group of 8, comprising 3 men and 5 women determine probability mass function, calculate $F_x(3)$

3. The probability of getting no misprint in a page is $e^{-6.}$Determine the probability that a page of a book contains at least 2 misprints

DMPT (Quiz 1) SEC B (SET 1) Name: Roll No: Marks:15

Answer all questions. Each carries 5 marks

1. Given that X has the distribution Poi(20).Calculate P(X<19),E[4X+5],Var[4X-5]

2. A fair coin is tossed 3 times. Let X be the random variable representing the total number of heads find the probability mass function and $F_x(2)$

3. The probability of getting no misprint in a page is 2 times the probability of getting 1 misprint. Determine the probability that a page of a book contains more than 2 misprints.

DMPT (Quiz 1) SEC B (SET 2) Name: Roll No: Marks:15

Answer all questions. Each carries 5 marks

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1. Given that X has the distribution Poi(20).Calculate P(X>19),E[3X+2],Var[3X-2]

2. A fair coin is tossed 3 times. Let X be the random variable representing the total number of tails find the probability mass function and $F_x(3)$

3. The probability of getting no misprint in a page is 2 times the probability of getting 1 misprint. Determine the probability that a page of a book contains at least 2 misprints.