

SNS COLLEGE OF ENGINEERING Coimbatore – 641 107



Tutorial-2

- 1. A CRV X that can assume any value between x=2 and x=5 has a density function given by f(x) = k (1+x). Find k.
- 2. X and Y are independent random variables with variance 2 and 3. Find the variance of 3X+4Y.
- 3. The mean of a Binomial distribution is 20 and S.D is 4. Determine the parameters of the distribution.
- 4. Out of 800 families with 4 children each how many families would be expected to have i. 2 Boys and 2 Girls
 - ii. At least 1 boy
 - iii. At most 2 girls
 - iv. Children of both gender, Assume equal probabilities for boys & Damp; girls.