

As per the given
$$G_{p}^{2}$$
: Lixelihood is

$$L(p) = \left[(1-p) \right]^{2x} \left[2p(1-p) \right]^{\frac{1}{2}} \left[p^{2} \right]^{2}$$

$$L_{q}(L(p)) = 2x \log(1-p) + y \log 2p + y \log(1-p) + 2z \right]$$

$$\frac{1}{2} \log (2(p)) = 0 \quad \text{for } MLE, \text{ when } get$$

$$\frac{1}{2} - 2x + y - y + 2z = 0$$

$$\frac{1-p}{p} = \frac{p}{p} \text{ with } p(1-p) \text{ on } 60\text{ th } \text{ wides}$$

$$\frac{1}{2} - py + 2z(1-p) = 2px + yp$$

$$\frac{1}{2} - 2px + 2py + 2zp$$

$$\frac{1}{2} + 2z = 2px + 2py + 2zp$$

$$\frac{1}{2} + 2z = 2x + 2y + 2z$$

Page No. Dale $(1-p)^{2}$ p^{2} $(1-p)^{2}$ p^{2} as a y & Z are counts of people & deno's are square in the withical pheople value of p denotes the maximum.