Date :...../...../.....

$P(B'|T) = \frac{P(B' \cap T)}{P(B')}$

1

$P(T) = 0.3$

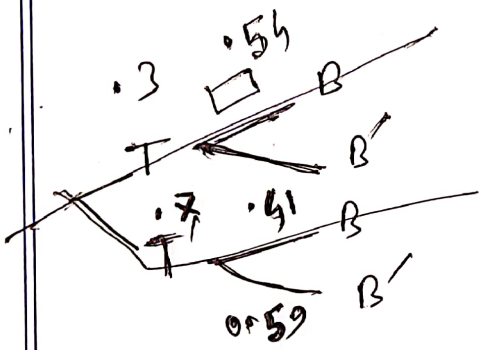
$P(T') = 0.7$

$P(B|T) = 0.54$

$P(B'|T') = 0.41$

$P(B|T) = \frac{P(B)\,P(T|B)}{P(T)}$ P(

$\frac{P(B \cap T)}{P(T)}$



$0.3 \times 0.54 + 0.7 \times 0.41$

$P(B) = 0.449 = 44.90\%$

$P(B') = 0.551$

$P(T|B')$

$\Rightarrow \frac{P(T) \cdot P(B'|T)}{P(B')}$ ~~$P(B|T')$~~

$= \frac{0.3 \times 0.59}{0.551}$

$= 0.3212$

$= 32.12\%$

$P(T'|B) = \frac{P(T') \times P(B|T')}{P(B)}$

$= \frac{0.7 \times 0.41}{0.449}$

$= 0.6392$

$= 63.92\%$

Protivas

Date : ...../...../.....

(2)

$P(DM^{\bullet}) = \cdot 6$

$\cdot 6 \times 19 = 11.4$

$SD = \sqrt{19.6 \times (1 - .6}$

$\lambda = 11.40$

59.91 %

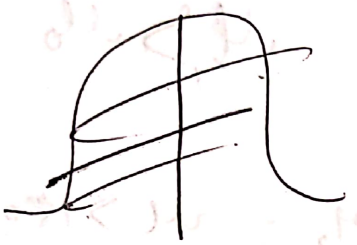
Protivas

Date :...../...../.....

3 N.D

$\mu = 76$ kg

$\sigma = 13$ kg



0.5116

0.4884

P 4

σ not given so t test

and also sample size < 30

one tailed because $\mu_1 > \mu_0$

$H_0 : \mu = 1800$, $H_2 : \mu > 1800$

P 5

$\mu_0 = 16$

$n = 22$ 1%

$\mu_1 = 11.8$

$\sigma = 8.5$