Assignment (3)	Name: Subhi' Bhwyan 2D: 17201116
Covid global prevalence, P(c	ovid) = 0.02
 P(T/Covid) = 0.80	
 P(~T 1 ~Covid) = 0.80	
 $P(T1 \sim Covid) = (1 - 0.80) = 0.20$	
P(~T   Covid) = 0.20	
P(~covid) = 1-0.02 = 0.98	
Now,	
0(-11) 0(-11)	
P(covid IT) = P(T   Covid) P(Covid)	
= 0.80 × 0.02	Let, P(A) = 0.016
= 0.016	
P(~Covid   T) = P(T1~Covid) P(~	Covid)
= 0.20 × 0.98	
= 0.196	Let, P(B) = 0.196
Pendonmed 3 individual tests,	
$3P(A) = 3 \times 0.016$	3P(B) = 3×0.196
= 0.048	= 0.588

## $2P(A) + P(B) = 2 \times 0.016 + 0.196$ 2P(B) + P(A) = 0.408= 0.228