BSE-3B   Quiz # 04

Probability & Statistics

Part a)

Ramada Inn = 20%
Sheraton = 50%
Lake View Motor Lodge :- 30%

faulty rooms at Ramadan Inn = 0.05
faulty rooms at Sheraton = 0.04
faulty rooms at Lake View = 0.08

Solutions

Required Probability = (0.20)(0.05) + (0.50)(0.04) + (0.3)(0.08)
$$= 0.054$$
$$\Rightarrow \boxed{5.4 \%}$$

Ans).

Prob. Part b
Required Probability = $\dfrac{0.024}{0.054}$ = 0.4444
$$\Rightarrow \boxed{44.44 \%}$$

ANS).