

Assignment Probability

FWC22088 P PAVAN KUMAR IITH Future Wireless Communication (FWC) Probability

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13.2.1 ¹If $\Pr(A) = \frac{3}{5}$ and $\Pr(B) = \frac{1}{5}$ find $\Pr(A \cap B)$ if A and B are independent events?
solution:

$$\Pr(A) = \frac{3}{5}, \Pr(B) = \frac{1}{5} \quad (13.2.1.1)$$

$$\implies \Pr(AB) = \Pr(A) \times \Pr(B) \quad (13.2.1.2)$$

$$\implies \Pr(AB) = \frac{3}{5} \times \frac{1}{5} \quad (13.2.1.3)$$

$$\implies \Pr(AB) = \frac{3}{25} \quad (13.2.1.4)$$

¹Read question numbers as (CHAPTER NUMBER).(EXERCISE NUMBER).(QUESTION NUMBER)