## Related Problem with Solution:

17. If A and B are events such that P (A|B) = P (B|A), then

$$A. A \subset B$$
 but  $A \neq B$ 

$$B. A = B$$

C. 
$$A \cap B = \phi$$

$$D.P(A) = P(B)$$

(i) (niven that 
$$P(A/B) = P(B/A)$$
.

$$P(A/B) = P(AAB) \quad \text{and} \quad P(B/A) = P(AAB) \quad P(A)$$

$$P(B/A) = P(AAB) \quad P(A)$$

$$P(AB) = P(ABB) \quad P(AB)$$

$$P(AB) = P(ABB) \quad P(AB)$$

$$P(AB) = P(B)$$
Option D