## K19FG-22-JAN

Friday, January 22, 2021

## Continued from frevious Lecture. "-

$$30 = \{1,3,5\} \times \{2,4,6\} = 3 \times 3 = 3$$

$$|8NC| = 9 \Rightarrow P(BNC) = 9 = 1$$

Again  $ANC = \{1,3,5\} \times \{2,4,6\} = 3 \times 3 = 9$ 

$$\Rightarrow P(An() = \frac{9}{31} = \frac{1}{4}$$

$$(3,5), (3,6), (1,3), (1,5), (1,6), (3,1), (3,2), (3,3), (3,4)$$

And = 
$$\{(1,1), (1,3), (1,5), (3,1), (3,3), (3,5), (5,1), (5,3), (5,5)\}$$
  
 $C = \{(1,2), (1,4), (1,6), (2,1), (2,3), (2,5), (----)\}$ 

of A MB Contains ordered pair with both numbers

odd but in C athest one number is even.

$$P(A \cap B \cap C) = P(A) \cdot P(B) \cdot P(C)$$

$$O = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$$

$$\boxed{O \neq \frac{1}{2}}$$

 $\Rightarrow$  A, B, C are not mutually Independent. But A, B, ( are pairwise independent of  $P(ANB) = P(A) \cdot P(B)$   $P(BNC) = P(B) \cdot P(C)$  $P(ANC) = P(A) \cdot P(C)$ 

Pag No. 3.79 6-

out. Match the correct option.

- (c) Atlenst one of the event
- (b) Nuther A nor B
- (1) Exactly one of the
- (1) If A occure, go day B
- (e) Not more than one of A and

Explanation: 
$$S - (AVB)$$

Explanation:  $S - (AVB)$ 

Explanation:  $S - (AVB)$ 
 $S -$ 

$$\frac{(R)(A-AnB)(B-AnB)}{(AnB)(BnA)} = C option$$

(i) (i) 
$$1-P(A) \rightarrow E$$
)
(ii)  $P(A \cap B) \rightarrow E$ )
(ii)  $P(A \cap B) \rightarrow E$ )
(ii)  $P(A \cap B) \rightarrow E$ )
(iii)  $P(A \cap B) \rightarrow E$ )
(iv)  $P(A) - P(A \cap B) \rightarrow E$ )
(d)  $P(A \cap B) \rightarrow E$ )
(e)  $P(A - B) \rightarrow E$ )
(iii)  $P(A \cap B) \rightarrow E$ )
(iv)  $P(A) - P(A \cap B) \rightarrow E$ )
(iv)  $P(A) - P(A \cap B) \rightarrow E$ )
(vi)  $P(A \cap B) \rightarrow E$ )
(viii)  $P(A \cap B) \rightarrow E$ )

If P(ANB) = 0 > A and B are

X(i) Independent

dependent and mutually Exclusive

+(ii) dependent but not mutually Exclusive.

X(V) None of these.

ANB = 4