4) Random Variables

Random hariable is a process of mapping the central of a random process or enperiment to a number.

\* renample:

2) Rolling a dice 6 times 
$$Y = \{2,1,4,2,3,5\}$$

Someone may take question like if y = f sum of realing a dice 7 times; then, what is, P(Y > 15), P(Y < 10).

5) <u>sets</u>

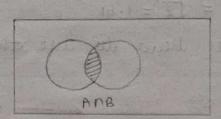
$$A = \{1,2,3,4,5,6,7,83\}$$

$$B = \{3,4,5,6,73\}$$

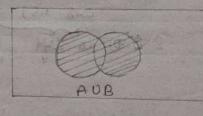
1. <u>Antersection</u>

(A N B)' = { 1,2,83 ( by mistake 3)

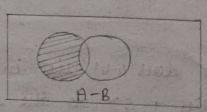
A N B = { 3,4,5,6,73



2. <u>Union</u> AUB = \$1,2,3,4,5,6,7,89



3. <u>Difference</u> A-B = \$1,2,83



4. <u>Sulvet</u>  $A \subseteq B \Rightarrow Jake$   $B \subseteq A \Rightarrow Jake$ 

5. <u>Superset</u>

ADB => Frue

BDA => False