

CHAPTER 15

Probability

Properties of probability:

- $P(E) + P(\bar{E}) = 1$,
 $P(E)$ = Probability of occurrence of an event “E”.
 $P(\bar{E})$ = Probability of non – occurrence of an event “E”.
- The value of the probability of any event ranges from ‘0’ to ‘1’. i.e. $0 \leq P(E) \leq 1$.
(or)
Probability is a positive rational number less than or equal to “1”.
- Probability of a definite (Sure) event is “1”.
- Probability of an impossible event is $P(\phi) = 0$.
- The sum of the probabilities of all possible outcomes of an experiment is always “1”.