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## Key Notes

## Chapter 15

## Probability

- Probability: Probability is a quantitative measure of certainty.
- Experiment: A job which produces some outcomes.
- Trial: Performing an experiment.
- Event: The group of outcomes, denoted by capital letter of English alphabets like A, B, E etc.
- The empirical (or experimental) probability $\mathrm{P}(\mathrm{E})$ of an event E is given by $P(E)=\begin{gathered}\text { Number of trials in which } E \text { has happend } \\ \text { Total no.of trial }\end{gathered}$
- The probability of an event lies between 0 and 1 ( 0 and 1 are included)
- Impossible event: Event which never happen.
- Certain event: Event which definitely happen.
- The probability of sure event is 1 .
- The probability of an impossible event is 0 .
- The probability of an event E is a number $\mathrm{P}(\mathrm{E})$ such that $0 \leq P(E) \leq 1$.

