



ജിനാലംഗാല ഘേ നജ്ജാല (ഘം)

**DEPARTMENT OF EDUCATION (S)**

Government of Manipur

## CHAPTER 15 PROBABILITY

### NOTES

#### ➤ Terms related to Probability:

- **Trial:** A trial is an experiment whose outcomes can be labeled either a success or a failure.
- **Event:** An event is an outcome or collection of outcomes of a trial.
- **Randomness:** A trial is said to be random if there is no pre-arrangement to get a particular outcome.
- **Biased case:** When the arrangements of a trial are such that there is inclination towards or against the happening of an event, then we say that the trial is biased towards or against the event.
- **Equally likely events:** Events are said to be equally likely if there is no reasonable ground to believe that one event is more likely to happen than the other.
- **Mutually Exclusive events:** Events are said to be mutually exclusive if the occurrence of one forecloses the occurrence of all the other events.

➤ The empirical probability  $P(E)$  of the occurrence of the events  $E$  is given by

$$P(E) = \frac{\text{The number of trials in which } E \text{ happened}}{\text{Total number of trials}}$$

Note:  $0 \leq P(E) \leq 1$  for any event  $E$ .



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