In your own words explain the difference between a point estimate and an interval estimate of a parameter? Which is better? Why?

Ans.

- Point estimate : A point estimate of a population parameter is a single value of a statistic. For example, the sample mean x is a point estimate of the population mean µ. Similarly, the sample proportion p is a point estimate of the population proportion P.
- Interval estimate : An interval estimate is defined by two numbers, between which a population parameter is said to lie. For example, a < x < b is an interval estimate of the population mean µ. It indicates that the population mean is greater than a but less than b.</p>

Confidence intervals are preferred to point estimates, because confidence intervals indicate (a) the precision of the estimate and (b) the uncertainty of the estimate