

Answer any five of the following questions:

5 x 15 = 75m

- ① Define vital statistics. Explain about various Birth rates?
- ② What are the various death rates. Explain? Give the applications of vital statistics.
- ③ Explain about various components of life table? Give its uses.
- ④ Describe about (i) N.R.R (ii) G.R.R (iii) Stable population (iv) Stationery population
- ⑤ Define Time Series. Explain about various components of Time series. Also give the uses of time series.
- ⑥ Explain about various measures of estimating Seasonal Indices with their merits & de-merits.
- ⑦ What do you understand by SQC? Give its applications
- ⑧ Define Assignable causes and Chance causes of variations. Briefly differentiate between Natural tolerance limits and Specification limits.
- ⑨ Explain the construction of  $\bar{X}$  and R-charts?
- ⑩ Explain the construction of C-chart. Give its applications.