

3.1 Explain different approaches used in data analysis through frequency distribution. Illustrate with examples.

OR

3.2 Define the term scientometrics. Discuss the views of Vlachy, Beck, Dobrov and Derek de Solla Price on scientometrics.

4.1 Explain obsolescence of literature and state how to measure it and its implications ?

OR

4.2 What are the objectives of regression analysis ? Discuss the assumptions underlying regression analysis.

5.0 Write short notes on **any three** of the following (in not more than **300** words) :

- (a) Scale and its types
 - (b) Entropy, negentropy and orderliness
 - (c) Bradford's Law of Scattering and its applications
 - (d) Goodness-of-fit test
 - (e) Cognitive mapping
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