

**Indian Statistical Institute**  
**8th Mile, Mysore Road, Bangalore 560059**  
**Documentation Research and Training Centre**

MSLIS III semester (2020-22) (Final)

Date: 03.01.2022

Marks: 100

**Paper-15: Informetrics and Scientometrics**

Time: 3 hours

PART - A. Answer the following questions in one or two sentences 5x4=20

1. What do you understand by the term 'Metrics'?
2. What is textual data? How it differs from bibliographic data?
3. Briefly write about inequality in information use.
4. Write a note about H index.
5. What is Journal Impact Factor? How it is calculated?

Part- B. Explain briefly any five of the following questions 5x7=35

1. What is Behavioural Bibliometrics? How bibliographic coupling and co-citations serve as tools to understand the relations in scientific literature? Provide suitable illustrations.
2. What is topic detection? How do you use citations and text data for topic detection?
3. What is cited-half life? How it is calculated. What is the relation between cited half-life and information growth?
4. Provide a descriptive statement about the contributions of D J Price **OR** Eugene Garfield to Scientometrics
5. Explain Lotka's law of author productivity
6. What is citation network? How it is used to map author and literature

Part- C. Answer any three of the following questions 3x15=45

1. What are the benefits of Citation Indexing? Illustrate with features and also, discuss the limitations of citation data and indexes.
2. Discuss the indicators to measure the impact of journals.
3. Discuss in detail 'Citation Analysis'.
4. Write a descriptive note on alternative indicators including peer review, downloads, non-citation based evaluation.