



বিদ্যাসাগর বিশ্ববিদ্যালয়

VIDYASAGAR UNIVERSITY

**MLISC. Examinations 2020**

**Semester II**

**Subject: Master of Library and Information Science**

**Paper: MLI-209**

(Theory)

**Full Marks: 40**

**Time: 2HRS.**

*Candidates are required to give their answers in their own words as far as practicable.*

**Answer any one question from following questions:**

- 1 Explain three fundamental bibliometric laws. Assess critically how three fundamental bibliometric laws may be interpreted from Bookstein's equation. What is Sengupta's correction to Bradford's law of bibliographic scattering? Explain in details.
- 2 Describe with illustration De Solla Price model for growth of literature. State how the concepts of growth of interdisciplinary and multidisciplinary subjects can be interpreted from this model. Explain Price Square-Root Law.
- 3 Explain different models of growth of literature. Critically explain the inadequacies of the classical citation-based indicators (Impact Factor, Immediacy Index, Half Life). What is 'Obsolescence study'?
- 4 Do you think h-index is a complete indicator? Justify your answer. Explain how excess citation influences h-index. Critically assess the concept of 'Indicator Mapping'.
- 5 The number of citations received and rankings of sixty articles of an author are given below: (Calculate h-index, i-10 index, G-index, R-index, e-index and a-index)

S. No.	Rank of Papers by times cited	Times Cited
1	1	91
2	2	90



3	3	58
4	4	43
5	5	34
6	5	34
7	5	33
8	7	31
9	8	29
10	9	25
11	10	24
12	11	23
13	12	22
14	13	21
15	14	16
16	15	15
17	15	15
18	16	14
19	16	14
20	17	13
21	17	13
22	18	12
23	18	12
24	19	10
25	20	9
26	21	8
27	22	7
28	23	6
29	23	6
30	23	6
31	23	6
32	24	5
33	24	5
34	24	5
35	24	5
36	25	4
37	25	4
38	25	4
39	25	4
40	25	4
41	25	4
42	25	4
43	26	3
44	26	3
45	26	3
46	26	3



47	26	3
48	26	3
49	27	2
50	27	2
51	27	2
52	27	2
53	27	2
54	27	2
55	27	2
56	27	2
57	28	1
58	28	1
59	28	1
60	28	1

6. Explain the concept of webometrics and altmetrics with examples. Describe different links used in webometric studies. What are Eigenfactor Score and Article Influence Score? What are the advantages of 'Dimension' compared to Scopus and Web of Science?
1. Explain Garfield's Law of Concentration and Benford's Law. Write Short Notes: (a) Librametry, (b) Bibliometrics, (c) Scientometrics and (d) Cybermetrics.
8. Give a brief outline of national citation movement. Critically examine the role of 'Indian Citation Index' in the context of national citation movement. Define 'Re-citation' and 'Coercive Citation'.
9. Compare 'SciELO Citation Index' and 'Korea Citation Index' with 'Indian Citation Index'. Briefly describe the databases covered by 'Web of Science Core Collection'.
10. Define 'Normalized Impact Factor'. What are its advantages over 'Impact Factor'. What is Web Impact Factor? Explain different types of links in this connection.
11. Define the following: a) Co-authorship Index; b) Degree of Collaboration; c) Activity Index; d) Attractivity Index; e) Relative Growth Rate and Doubling Time; f) Journal Affinity; g) Journal Associativity; h) Journal Consumption.
12. Define W-Index. Discuss the demerits of h-index. What are 'Bibliographic coupling' and 'Co-citation coupling'? Give brief notes on: ReaderMeter, PaperCritic and CrowdoMeter.