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PG/2nd Sem/MLI/19

2019

M.LIB.I.Sc.

2nd Semester Examination

STUDIES OF ACADEMIC METRICS

Paper - MLI 207

Full Marks : 40

Time : 2 Hours

The figures in the margin indicate full marks.

1. Answer any four questions : 2×4
- (a) What is i_n index?
 - (b) Define co-citation coupling.
 - (c) Define immediacy index of a journal.
 - (d) What is cited half-life of a journal?
 - (e) Who coined the term 'Informetrics' and when?
 - (f) Give examples of some academic social networks.
 - (g) State B.K. Sen's equation of Normalised Impact Factor.
 - (h) Define author self citation and journal self citation.

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2. Answer any **four** questions : 4×4
- (a) Explain Bradford's law of bibliographic scattering. What is Sengupta's correction in this context?
 - (b) Define two-year journal impact factor. What is bibliographic coupling?
 - (c) Explain Lotka's law of author productivity. Discuss the nature of function described in this law.
 - (d) What is Benford's law? State two limitations of citation analysis.
 - (e) Define SJR rank and RG score. What is the difference between these two parameters?
 - (f) Explain how Stigler's law of eponymy contradicts Price's 'Little Science Big Science' concept.
 - (g) Define h-index. Do you think h-index is a complete indicator? Justify your answer.
 - (h) Explain power model and logistic model of growth of literature.
3. Answer any **two** questions : 8×2
- (a) Define Altmetrics. Describe different components of Altmetric score. State two major advantages of Altmetric score.
 - (b) Distinguish among librmetry, bibliometrics, informetrics, scientometrics and webometrics. What is patentometrics? Name two institutions in

India involved with advanced study and research in scientometrics.

- (c) Data given below show the rank of published papers and number of citations received by an author. Calculate total citations, h-core excess citations, overall excess citations and tail citations. Then find out the following indicators :

- i. h-index
- ii. i-10 index
- iii. g-index
- iv. e-index
- v. a-index
- vi. R-index

Rank of papers	No of citations received
1	25
2	17
3	11
4	9
5	8
6	8
7	7

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8	7
9	6
10	5
11	5
12	5
13	4
14	4
15	4
16	3
17	3
18	3
19	2
20	2
21	2
22	2
23	1
24	1
25	1
26	1
27	1
28	1
29	1
30	1

- (d) Explain how the subject bibliometrics or scientometrics originated from sociology of science. Describe with illustration, different stages of life cycle of science disciplines with respect to price's logistic growth curve.
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