Indian Statistical Institute
Documentation Research and Training Centre

M.S. in Library and Information Science
Semester 3, Final-Term Exam (AY 2023-24)

Paper – (13): Data Management

Date: 20/11/2023

Max. Marks: 100
Time: 3 Hrs.

Attempt any five questions. All questions carry equal marks.

1. Why is the term 'Big Data' frequently referred to these days and what are some of the major problems associated with Big Data? How does Apache Hadoop help to address these problems?

    [10+10]

2. 'Data Librarianship has emerged as a new role within the LIS profession'. Justify the statement. Why do you think LIS professionals are best suited to handle Data Management activities?   [10+10]

3. Discuss the role of data repository certifications and standards, such as CoreTrustSeal/ISO16363/NESTORSeal, in ensuring the quality and trustworthiness of data repositories. What are the criteria and processes for achieving and maintaining these certifications?   [10+10]

4. Discuss primary differences between a data repository and a digital repository. An agriculture research institute has a digital repository, should it acquire additional data repository -Explain. Write a note on DRAMBORA.   [5+8+7]

5.
    a. What are the fundamental principles of FAIR data? How do these principles address the challenges of data management and enhance data sharing and usability for researchers?   [10]
    b. Explain the CARE principles in data management and stewardship. How do these principles address the ethical and social aspects of data sharing and use?   [10]

6. Write short notes on any **four** of the following: [4*5=20]
    a. Open Science
    b. Data Life cycle
    c. Open Government Data
    d. Linked Data Principles
    e. FATE Principle