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Documentation Research and Training Centre
Indian Statistical Institute, Bangalore Centre – 560059

MS-LIS (2021-23) Third Semester Examination
Paper 13: Data Management

Date: 23/11/2022

Time: 3 hrs

Maximum Marks: 60

(Attempt any four questions. Each question carries 15 Marks)

1. a) “Big Data is an opportunity”. Critically evaluate this statement and discuss what is ‘Big’ in Big Data. [7]
b) Explain the challenges associated with big data and describe how Apache Hadoop solves these challenges. [4+4]
2. a) Discuss in detail the philosophy of Open Science. [8]
b) What do you mean by Open Data? Explain different kinds of Open Data. [2+5]
3. a) What is data repository? Indian Statistical Institute (ISI) has its digital repository, should they look for an additional dedicated data repository to manage their data? Justify your argument for yes or no. [1+6]
b) Enumerate the optimum criteria for choosing a data repository. Discuss the statement "CKAN is a data management solution". [3+5]
4. What is linked data? What distinguishes linked data from linked open data? Explain linked data principles in detail. [1+2+12]
5. Write short notes about any **three** of the following. [3*5=15]
 - a) Data Analytics
 - b) ETL
 - c) 5 Star Linked Data
 - d) Ontology