

**MASTER OF LIBRARY & INFORMATION SCIENCE (DIGITAL LIBRARY)  
(EVENING) EXAMINATION, 2025**

**DEPARTMENT OF LIBRARY & INFORMATION SCIENCE**

**2nd Year, 2nd Semester**

**Subject Code : MLDL - 15**

**SEMANTIC WEB TECHNOLOGIES**

**Time : Two Hours**

**Full Marks : 50**

*Answer any five questions from following.*

5×10=50

1. What are the purposes of Linked Open Data ? Discuss the LOD five star schema. 5+5
2. State the different RDF serialization formats and discuss any two of them with examples. 4+6
3. Discuss RDF triples with examples. How do you implement the Linked Data Principles in “web of data”? 4+6
4. Discuss the MADS RDF schema and FOAF ontology with examples. 5+5
5. Discuss the different steps involved in transforming bibliographic data from the Koha library management system to linked open data (LOD) using the Open Refine tool (Version : 3.7.2) with an example. 5+5
6. Write the statement / command of the following questions : 5×2
  - (a) Write a SPARQL statement to list the people and their names who are born in “Kolkata”.
  - (b) Write a SPARQL statement to find 20 people (URI and place of death) who were born in Kolkata, but died elsewhere.
  - (c) Write a GREL expression to replace all null values (blank/empty) for the column “Place” by the value “Not Found”.
  - (d) Convert the string “welcome to jadvapur university” to uppercase using GREL function.
  - (e) Convert the decimal 5.9 to 5 as string using GREL function.
7. Write short notes on *any two* of the following : 2×5=10
  - (a). VIAF
  - (b). URI vs IRI
  - (c). DPLA
  - (d). Share - VDE

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