

**Indian Statistical Institute  
Documentation Research and Training Centre**

**MS in Library and Information Science  
Mid-Semester Exam (IV semester) (2023-2025)**

**Paper –20 : SEMANTIC WEB**

**Date:** 19.02.2025

**Max Marks:** 40

**Time:** 90 minutes

*Answer any **four** questions. All questions carry equal marks.*

1. "Semantic Web is an extension of the current Web" - explain the mission and vision behind this extension. [10]
2. Define and explain the differences between a taxonomy, a thesaurus, and an ontology. [10]
3. Describe RDFS and discuss its limitations as a knowledge representation language. [10]
4. Draw a valid RDF Graph based on the following statements. [10]

*Shiyali Ramamrita Ranganathan's (9 August 1892 – 27 September 1972) two most notable published works are the Five Laws of Library Science, published in 1931, and Colon Classification, published in 1933. Ranganathan was born on 9 August 1892 in Tamil Nadu. Ranganathan established the Documentation Research and Training centre (DRTC) of the Indian Statistical Institute in 1962.*

5. Write short notes (any two)  
(a) Knowledge Representation Language.  
(b) RDF triple.  
(c) RDF Blank Node.

2\*5=10