- b) What do you mean by ontology? What are the different types of OWL? (3+3)+(2+2)
- 5. a) What do you mean by SPARQL. Describe different queries with suitable examples.
 - b) Classify different types of OWL. Why the acronym of OWL is not abbreviated as WOL? (4+2)+(3+1)
- 6. a) Explain semantic search. Highlight different types of semantic searches?
 - b) Describe the role of professional organizations to spread the essence of semantic web in library services.

 3+5+2
- 7. Differentiate between:
 - a) XML & HTML
 - b) Web 2.0 & 3.0
 - c) Machine Learning & Deep Learning
 - d) ASCII & Unicode 3+2+3+2

Master of Library and Information Science (Digital Library) Examination, 2022

(2nd Year, 2nd Semester)

SEMANTIC WEB TECHNOLOGIES PAPER – MLDL-15

Time: Two hours Full Marks: 50

Answer Q.No. 1 and any four (4) questions from the rest.

- 1. Define the following terms: $2\frac{1}{2} \times 4$
 - a) NLP
 - b) XML Namespace
 - c) Machine Learning
 - d) UNICODE
- 2. a) What is RDF? How does semantic web technology help in resource discovery?
 - b) What are the features of RDF in relation to semantic web technology? (2+5)+3
- 3. a) Explain semantic web layers with a diagram.
 - b) Describe the application of semantic web in digital library environment. 6+4
- 4. a) What is Artificial Intelligence? How does it help in natural language processing?