

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

**MS in Library and Information Science  
Mid-Semester Exam (IV semester) (2014-2016)**

**Paper –20 : SEMANTIC WEB**

**Date:** 25.02.2015

**Max Marks:** 40

**Time:** 90 minutes

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

1. Explain the usefulness of Semantic Web technologies in improving the present search and retrieval scenarios. [10]
2. Briefly discuss the differences between data, information and knowledge. Describe an ontological Knowledge Base. [5+5]
3. What is an ontology? Discuss the types of ontologies with examples when the classification is based on the scope of objects. [2+8]
4. What is a knowledge representation? – Briefly discuss. Discuss the various purposes of an ontology. [4+6]
5. Answer **any two** of the following. [5\*2=10]
  - a. Discuss the relationships between an ontology and a thesaurus.
  - b. Write a short note on Semantic Net.
  - c. Briefly discuss DOLCE ontology.
  - d. Briefly discuss RDF and RDFS.