Indian Statistical Institute
Documentation Research and Training Centre

MS in Library and Information Science
Mid-Semester Exam (IV semester) (2018-2020)

Paper –20: SEMANTIC WEB

Date: 24.02.2020

Max Marks: 40
Time: 90 minutes

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

1. What is knowledge representation (KR)? Briefly discuss the essential features of a KR language. [10]
2. What is an ontology? Briefly describe the various types of ontologies as defined based on their knowledge coverage. [2+8]
3. What is the Semantic Web (SW)? Discuss the motivations of SW in the context of information search and retrieval problems on the conventional Web. [2+8]
4. (a) Briefly, illustrate the differences between a thesaurus and an ontology. [5]
   (b) Briefly, describe the various characteristics that an ontology must possess. [5]
5. (a) Write, a short note on the Semantic net. [5]
   (b) Briefly, describe RDF and RDFS. [5]