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**CS-8204****B.E. VIII Semester**

Examination, June 2017

**Semantic Web Ontologies****Time : Three Hours****Maximum Marks : 70**

**Note:** i) Answer any five questions.  
 ii) All questions carry equal marks.

1. What is web of Data? Explain Semantic Web Technologies and problems associated with it.
2. Explain the search engine for semantic web.
3. What is semantic modelling prediction? Explain prediction word association.
4. Explain variation, layers and expressivity in the context of semantic modelling.
5. Explain synthetic reasoning with deduction rules.
6. Explain RDF schema and Querying RDF data.
7. Explain OWL sub languages and Model-Theoretic Semantics of OWL.

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8. Answer any four of the following:

- a) How the calculation with knowledge are done and information are unchanged?
- b) Discuss mediating variability in brief.
- c) Discuss about RDF resources, properties and statements with example.
- d) What is ontology matching?
- e) How existing ontologies can be reused.
- f) What is RDF data standards and interoperability of RDF stores.

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