

Semantic Web And Ontologies

Time: Three Hours    <http://www.rgpvonline.com>

Maximum Marks: 70

Note: Attempt any five questions. All questions carry equal marks.

1. a) How the semantic web services are different from other web services? Explain with an example. 7

b) Explain Semantic search Technologies? 7

Or

2. a) Explain the smart web and dumb web.

b) Write a detail note on "Building semantic web applications with social network features." 7

3. Explain in detail the Modeling for human communication. 14

Or

4.a) Explain the expressivity in modeling. 7

b) Write a detail note about mediating variability. 7

5. Explain the following in detail? 14

a) Resource Description Framework (RDF).

b) Resource description framework schema.

Or

6. Explain the following in detail? 14

a) Syntactic reasoning with deduction rules.

b) Distributing data across web.

7. a) Explain Ontology Web Language (OWL) 7

b) Discuss the role of Ontology in the semantic web? 7

Or

8.a) Write about Ontology Libraries. 7

b) Explain the features of Ontology. 7

9.Explain the following: (Any four): 14

i) Interoperability of RDF stores.

ii) Query Language for RDF

iii) RDF parser / serializer

iv) Ontology Mapping.

v) Reusing Existing Ontology.