

**R09**

**Code No: D5807**

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**M.Tech II - Semester Examinations, March/April 2011**

**SEMANTIC WEB AND SOCIAL NETWORKS**

**(COMPUTER SCIENCE AND ENGINEERING)**

**Time: 3hours**

**Max. Marks: 60**

**Answer any five questions  
All questions carry equal marks**

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1. a) Explain about intelligent web applications.  
b) What are the features of next generation web? [6+6]
2. Give an overview of the following  
a. Inference engines  
b. Software agents [6+6]
3. a. Explain the features of Ontology?  
b. Explain how UML is used for knowledge representation? [6+6]
4. Explain resource description framework (RDF) schema. [12]
5. a. Explain the process of constructing ontology.  
b. Explain ontology sharing. [6+6]
6. Explain the OWL-S service profiles? Explain how OWL-S ontology is created for web services. [12]
7. a. Explain the key concepts of social network analysis.  
b. Explain the global structure of social networks. [6+6]
8. Write short notes on:  
a. Electronic discussion networks  
b. blogs [6+6]

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