

Code: 9F00405b

MCA IV Semester Regular & Supplementary Examinations May 2018

**SOCIAL NETWORKS & SEMANTIC WEB**

(For students admitted in 2011 (LC), 2012, 2013, 2014, 2015 & 2016 only)

Time: 3 hours

Max. Marks: 60

Answer any FIVE questions  
All questions carry equal marks

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- 1 (a) Discuss the role of artificial intelligence in Next Generation Web.  
(b) What are the limitations of today's web? How the limitations can be overcome in Next Generation Web?
- 2 (a) Explain in detail about ontology and its role in semantic web.  
(b) How XML is used in RDF to represent knowledge in semantic web?
- 3 (a) Discuss about the process involved in ontology construction.  
(b) Brief about ontology sharing and merging.
- 4 (a) How will you create OWL-S ontology for web services? Explain with an example.  
(b) Write short notes on semantic bioinformatics and knowledge base.
- 5 Explain in detail about the key concepts and measures involved in social network analysis.
- 6 (a) How do you model and aggregate social network data?  
(b) Give few real time examples of electronic discussion networks and brief about its application.
- 7 (a) Discuss about the strategies for building semantic web application with social network features.  
(b) Write short notes on evaluation of web-based social network extraction.
- 8 Explain in detail about the structural and cognitive effects on scientific performance of social network analysis.

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