Code No: **RT42054D** **R13** **Set No. 1**

IV B.Tech II Semester Regular/Supplementary Examinations, April/May - 2019

SOCIAL NETWORKS AND THE SEMATIC WEB

(Computer Science and Engineering)

Time: 3 hours **Max. Marks: 70**

Question paper consists of Part-A and Part-B

Answer ALL sub questions from Part-A

Answer any THREE questions from Part-B

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PART–A *(22 Marks)*

1.	a)	Compare and contrast between Web 2.0 and Semantic Web.	[4]
	b)	What is Social network analysis?	[3]
	c)	Write the unique features of RDF/OWL.	[4]
	d)	Mention the basic building blocks for defining equality of social network data.	[3]
	e)	List the dynamic properties of social networks.	[4]
	f)	Write the Similarity measures for graphs for based on edge sets.	[4]

PART–B *(3x16 = 48 Marks)*

2.	a)	To overcome weaknesses / limitations of present day current Web, what do you propose the next generation should be like?	[8]
	b)	Justify that "The Semantic Web is formulated as a vision points to the problem of bootstrapping the Semantic Web".	[8]
3.	a)	Explain Semantic search technology and web search agents.	[8]
	b)	Discuss in detail about electronic discussion networks.	[8]
4.	a)	Explain three essential types of knowledge that ontology of services provides with suitable examples.	[8]
	b)	Discuss how the number of nodes on the Web creates computational complexity that limits the ability to develop logic proof systems.	[8]
5.	a)	Give a good presentation of Ontology libraries and Ontology mapping.	[8]
	b)	Discuss the ways for multiple identifiers that can be represented in RDF.	[8]
6.	a)	Describe the generic architecture of Semantic Web application.	[8]
	b)	Explain the features of Flink that extracts knowledge about the social networks of the Semantic Web community.	[8]
7.	a)	Discuss the direct comparison of methods for social network mining.	[8]
	b)	How Predicting the goodness of fit can be done in social network analysis? Explain.	[8]