

Code No: **RT42054D**

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Set No. 1

IV B.Tech II Semester Regular/Supplementary Examinations, April - 2018 SOCIAL NETWORKS AND THE SEMANTIC WEB

Time: 3 hours

(Computer Science and Engineering)

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 *****

PART-A (22 Marks)

1.	a)	How the Semantic Web so useful for the development of web?	[4]
	b)	Define affiliation networks & its major role in network analysis.	[4]
	c)	What is meant by relational databases?	[3]
	d)	List the Classes and properties of the FOAF ontology.	[4]
	e)	Explain the role of Permanent Node Ranker in RDF.	[4]
	f)	How the Evaluation is performed through analysis?	[3]

<u>PART-B</u> (3x16 = 48 Marks)

2.	a)	Explain how the Semantic Web is to apply advanced knowledge technologies in	503
		order to fill the knowledge gap between human and machine.	[8]
	b)	What is Semantic Web? Explain with an example.	[8]
3.	a)	Discuss in detail about the global structure of networks.	[8]
	b)	Explain clearly the concept of Personal networks.	[8]
4.	a)	Explain clearly about the Resource Description Framework (RDF) and RDF	۲ 0 ٦
	b)	Schema.	[8]
	b)	Compare and contrast OWL with UML.	[8]
5.	a)	Discuss the Ontological representation of social relationships.	[8]
	b)	Explain the OWL-S service profiles? Explain how OWL-S ontology is created for web services.	[8]
6.	a)	Explain how GraphUtil is facilitates reading FOAF data into the graph object model.	[8]
	b)	Explain the architecture of Flink.	[8]
7.	a)	Discuss the following:	
		i. The effect of network structure on performance	
		ii. The effect of cognitive network structure on performance	[8]
	b)	Discuss the following:	
		i. Similarity measures for graphs based on edge sets	
		ii. Flink system used Data acquisition	[8]

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