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Code No: 815BK JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

MCA V Semester Examinations, August – 2017

MCA V Semester Examinations, August – 2017 SEMANTIC WEB AND SOCIAL NETWORKS		
Time: 3 Hours Max. Marks: 60		
	This question paper contains two parts A and B. Part A is compulsory which carries 20 marks. Answer all questions in Part consists of 5 Units. Answer any one full question from each unit. Each questi 8 marks and may have a, b, c as sub questions.	A. Part B
PART - A		
1 a)	5×4 Marks =	
1.a) b) c) d)	What are limitations of today's web? Also comment on "next generation web". How to map a RDF statement onto Relational Database model? Discuss about Semantic Search and e-learning. Write brief notes about "SWOOGLE".	[4] [4] [4] [4]
e)	Describe briefly about "Elmo".	[4]
PART - B		
	$5 \times 8 \text{ Marks} = 40$	
2.	Write short notes on the following: a) Turing test b) Artificial Intelligence OR c) Semantic networks and frames	s.[2+3+3]
3.	Discuss about the following: a) Sematic Web roadmap b) Logics on the semantic web.	[4+4]
4.	Design and explain an ontology about Geography including cities, countries, staton. OR	es, and so [8]
5.	Explain the following in brief. a) Steps for constructing an ontology.	
	b) Ontology libraries.	[4+4]
6.	How "Logic and rules" are used on the semantic web to create inferences to produce new knowledge? Also discuss with an example of a "simple RDF inference engine". [8] OR	
7.	Write short notes on the following: a) Sematic Web Services b) Sematic based enterprise application and data integration.	
	c) Knowledge base.	[3+3+2]
8.	"The vision of semantic web services is to automate web services through t machine processing". Prove and justify the statement with suitable example. OR	he use of [8]
9.	Describe shortly the "Key concepts of Social Network Analysis".	[8]
10.	Narrate the following 'Electronic sources on Network Analysis'. a) Electronic discussion network b) Web based network. OR	[4+4]

application with social network features.

Explain about "Sesame and GraphUtil" strategies in view of developing semantic web