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Max. Marks: 60

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA V Semester Examinations, June/July - 2018 SEMANTIC WEB AND SOCIAL NETWORKS

Time: 3 Hours

Note: This question paper contains two parts A and B. Part A is compulsory which carries 20 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 8 marks and may have a, b, c as sub questions.

PART - A

	5×4 Ma	$\mathbf{rks} = 20$
1.a)	What is meant by the concepts of 'thinking' and 'intelligent applications' on the	web?
		[4]
b)	List the merits and limitations of RDF and RDFS.	[4]
c)	Write various conditional transformation rules in propositional logic.	[4]
d)	What are the three types of processes defined by the OWL-S? Give examples	for each
	type.	[4]
e)	Give the different measures of co-occurrence and give their disadvantages.	[4]
PART - B		
5×8 Marks = 40		
2.	Discuss the forces behind the information revolution and compare them with i revolution.	ndustrial [8]
3.a)	How is the goal of semantic web different from most systems of logic?	
b)	Briefly review Berners-Lee's contribution in developing the Web.	[4+4]
0)	Brieffy fevrew Berners Lee s control of in developing the west	[,,,]
4.	"The document type definition is used for validating the XML document". Sub	ostantiate
	this statement with relevant examples.	[8]
	OR	L-J
5.	Describe the requirements for web ontology language and its relationship with l	Resource
	Description Framework Schema.	[8]
6.	Explain tree search approaches for inference engine working.	[8]
	OR	
7.a)	Describe the application areas for semantic technology.	
b)	What is a knowledge base? Compare it with database.	[4+4]
8.	Describe in detail the five steps required in creating an OWL-S ontology services.	for web [8]
	OR	
9.	What is social network analysis? Explain the development of social network an convergence of several streams of applied research.	alysis as [8]
10.a)	Discuss digital diaries as a source of network analysis.	
b)	What is meant by online community space? Give examples.	[4+4]
0)	OR	[┯╷┷]
11	Describe the architecture of Flink and discuss its features.	[8]
	Deserve are demoved of think and discuss its founders.	[0]

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