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## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA V Semester Examinations, December - 2019 SEMANTIC WEB AND SOCIAL NETWORKS

Time: 3hrs Max.Marks:75

**Note:** This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a h c as sub questions

	10 marks and may have a, b, c as sub questions.	
PART - A		
	$5 \times 5 \text{ Ma}$	rks = 25
1.a) b)	What are the limitations of today's web? Illustrate the parts of an RDF document.	[5] [5]
c) d)	What are the tools used for ontology construction? What functions are automated by the OWL-S?	[5]
e)	How to compute the weight of a directed link between two persons in we networks?	[5] eb-based [5]
PART - B		
$5 \times 10 \text{ Marks} = 50$		
2.	Which sub branches of machine intelligence have particular relevance to the sweb? Discuss them in detail.	semantic [10]
3.	What are the major contributions of Berners-Lee to the Information revolution?	Explain. [10]
4.	Discuss the interpretation of multiple statements in relationship to RDF statemes uitable examples.  OR	ents with [10]
5.	Explain characteristics of various types of web ontology language.	[10]
6.	Describe tree searching algorithms used in knowledge representation.  OR	[10]
7.	Explain how logic and rules are used on the semantic web to create inferent manipulate and produce new knowledge.	ices that [10]

- 8. With suitable examples explain the three types of processes defined by OWL-S. [10] OR
- E-learning is leveraging technology experiencing rapid development. Explain the need of 9. semantic methods for e-learning and any one method in detail. [10]
- How to perform social network analysis? Explain the role of electronic sources for this 10. analysis. [10]

Discuss the advanced features provided by Elmo scutter to support FOAF profile 11. collection. [10]