R15

Code No: 128EQ

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year II Semester Examinations, July - 2019 SEMANTIC WEB AND SOCIAL NETWORKS

(Computer Science and Engineering)

Max. Marks: 75 Time: 3 hours 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, b, c as sub questions. PART - A (25 Marks) Why intelligent ubiquitous devices improve productivity? [2] 1.a) [3] Explain about the WWW. b) [2] Describe ontology sharing and merging. c) [3] What are unique features of UML? d) [2] Explain about semantic Web services. e) [3] Explain about Monotonic and Nonmonotonic Rules. f) [2] Describe electronic discussion networks. g)[3] What is network analysis? Explain. h) [2] Define Sesame Repository. i) [3] Explain about GraphUtil. j) PART - B (50 Marks) Discuss how the number of nodes on the Web creates computational complexity that limits 2.a) the ability to develop logic proof systems. [5+5]Explain about artificial intelligence and machine intelligence. b) Discuss about the logic on the semantic Web. 3.a) What are limitations of semantic Web? Describe the next generation Web. [5+5] b) [10] Explain in detail about RDF and RDF schema. 4. OR Discuss about ontology engineering in detail. 5.a) [5+5]b) What is OWL? Explain in detail. Discuss in detail about RDF inference engine. 6.a) [5+5]What are semantic Web applications? Explain. b) Explain in detail about inference engines. 7.a)[5+5]

Describe semantic search and e-learning.

b)

8.a)	What are semantic methods? Explain.	
b)	What's wrong with the Web? Explain.	[5+5]
	OR	
9.a)	Discuss about technology adoption in detail.	
b)	Explain in detail about semantic search technology.	[5+5]
10.	Explain in detail about Web based networks.	[10]
10.	OR	[]
11.	Explain the following:	
	a) Blogs	
	b) Online communities.	[5+5]

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