Code No.: IT743PE

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## CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

## IV-B.TECH-I-Semester End Examinations (Regular) - November- 2023 SEMANTIC WEB & SOCIAL NETWORKS

(IT)

[Time: 3 Hours] [Max. Marks: 70]

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 10 marks and may have a, b, c as sub questions.

	PART-A (26	Marks)
1. a) b) c) d) e) f) g) h) i)	Define Artificial Intelligence? Define Ontology. Explain about HTML language. Analyze and evaluate the unique features of UML. What are the differences between monotonic and nonmonotonic rules in the context of logic and reasoning? List the famous ontology development tools. What is e-learning? Explain. Explain about the Google Search algorithm. What is social network analysis? Write a note on Elmo API	[2M] [2M] [2M] [2M] [2M] [2M] [2M] [2M]
	PART-B (5	0 Marks)
2.	Explain about Intelligent Web applications	[10M]
3.a)	OR What is the concept of an agent, and could you provide insights into the different	[5M]
b)	types of software agents? Explain the Semantic road map.	[5M]
4.	Explain how semantic web is used for knowledge representation.	[10M]
	OR	
5.	Describe about ontology web language.	[10M]
6.	Discuss about ontology mapping tools and their significance in the field of knowledge representation and semantic web?	e [10M]
	OR	£10M3
7.	What are the semantic web applications and services? Explain how do they work.	[10M]
8.	What is Social Network Analysis? Explain the development of Social Network Analysis.	( [10M]
	OR	£10N47
9.	Discuss about web search agents and semantic search technology.	[10M]
10.	Explain in detail about building semantic web applications with social network features.	( [10M]
OR		
11.	Explain about web-based networks.	[10M]
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