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R15 Code No: 128EQ JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year II Semester Examinations, May - 2019 SEMANTIC WEB AND SOCIAL NETWORKS (Computer Science and Engineering) 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. (25 Marks) [2] Define artificial intelligence. 1.a) [3] What are the objectives of semantic web architecture? b) [2] List the famous ontology development tools. c) [3] What is the purpose of visual modeling? d) Quote an example for Modus Ponens argument. [2] e) An Expert system has three levels of organization. What are those levels? [3] f) [2] Give the four functions to be automated by OWL-S. g) [3] What is the relationship between a service and profile? h) What is the drawback of links feature of web based network? [2] i) [3] What is the use of referral chaining in social network analysis? j) (50 Marks) Discuss the development of information age and how the Web contributes. [10] 2.. Illustrate reasoning with semantic net. 3.a) What is meant by adaptive software? What is the need of soft computing for this? [10] b) Explain the advantages of XML over HTML and also its limitations. How does RDF [10] address these limitations? What are the requirements for web ontology language? What is its relationship with RDF 5.a) schema? [10] Differentiate between OWL-DL and OWL-Lite. b) "Non-monotonic rules are useful where information is unavailable." Substantiate this [10]statement with illustrative examples. OR Trade-off between finding the minimum necessary expressive power and the maximum 7.a) possible reasoning capability for the semantic web. [10] What is the vision of educational semantic web?

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