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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA V Semester Examinations, January - 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 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

- 1.a) What are the basic limitations of today's Web? [5]b) Is XML a replacement or complimentary technology for HTML? Justify your answer.[5]
- c) Present the elements of a simple RDF inference engine.
- d) What type of knowledge is provided by service grounding?
- e) What two features of web pages are considered for extracting social relations? Why?[5]

PART - B

5 × 10Marks = 50

- 2. How the Web contributes information services that benefit human productivity? Discuss suitable examples. [10]
- 3. NP-complete problems are encountered frequently in artificial intelligence. Discuss them and what are the alternatives to address them. [10]
- 4.a) Give illustrative examples for RDF Schema.b) Compare and contrast XML schema with RDF schema. [5+5]

OR

- 5. How to compare conceptual information across two knowledge bases on Web? Explain the process with illustrations. [10]
- 6. "Good empirical evidence of scalability-tractability for conceptual reasoning with description logic systems is necessary" Support or oppose this statement. [10]

OR

- 7. What is latent semantic indexing? How can this approach improve semantic search? Explain your answer. [10]
- 8. Describe the relationship between OWL-S and WSDL and SOAP. [10]
 - OR
- 9. What is a social network? What are the benefits of social network analysis? Discuss the basics in social network analysis. [10]
- 10. Explain the role of blogs and online communities in predictive analytics- a kind of social network analysis. [10]

OR

11. Does Sesame integrate reasoning into RDF triple store? Justify your answer with necessary discussions. [10]

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 5×5 Marks = 25

[5]

[5]