

Code No: 825AG

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**MCA V Semester Examinations, December - 2019****SEMANTIC WEB AND SOCIAL NETWORKS****Time: 3 Hours****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, b, c as sub questions.

PART - A**5 × 5 Marks = 25**

- 1.a) How the term “intelligence” can be applied to nonhuman entities as we do in the field of Artificial Intelligence (AI)? [5]
- b) Discuss about Ontology methods. [5]
- c) What is the goal of incorporating logic, inference, and rules processing onto the Semantic Web? [5]
- d) Why Web Service Architecture requires discrete software agents that must work together to implement functionality? [5]
- e) How Blogs create a context for dialogues between bloggers and readers? [5]

PART - B**5 × 10 Marks = 50**

- 2.a) Why Information Age is considered as global revolutionary change on the scale of earlier revolutions?
- b) How is the World Wide Web managing knowledge and empowering the Information Revolution? [5+5]

OR

- 3.a) Explore various complexity limitations affecting the Semantic Web
 - b) Discuss about Intractability and Undecidability of semantic web. [5+5]
- 4.a) How Web Ontology Language facilitates greater machine readability of Web content?
 - b) Explain about Ontologies that can be constructed by iterating process. [5+5]

OR

- 5.a) How taxonomies, database schema, frame languages and logics are relevant to ontology engineering?
 - b) Summarize Ontology development tools. [5+5]
- 6.a) How Semantic Web can address and improve the linking of databases, sharing content between applications?
 - b) Discuss about two approaches that improve search results through semantic methods. [5+5]

OR

- 7.a) Why Web Services are considered as self-contained, self-described, component application invoked across the Web to perform complex business processes?
- b) Why the business integration technology uses XML documents that might first be “lifted up” to an RDF data model? [5+5]

8.a) Explain about Commercial search engines that are based upon human directed search and automated search.

b) Discuss about two approaches for improving search results through semantic methods. [5+5]

OR

9.a) How Google combines Page Rank with sophisticated text-matching techniques?

b) Discuss about Electronic Discussion networks. [5+5]

10. Explain how Jaccard-coefficient represents the intersection and union of the sets of pages in web based networks. [10]

OR

11. Demonstrate *Sesame*, *Elmo* and *GraphUtil* to represent social network features. [10]

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