

R15

Code No: 825AG

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**MCA V Semester Examinations, June/July - 2018****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) Explain about the information age. [5]
- b) Discuss about ontology methods. [5]
- c) Give an overview of logic, rules and inference. [5]
- d) Explain about Swoogle. [5]
- e) Describe the generic architecture of semantic Web applications. [5]

PART - B**5 × 10 Marks = 50**

- 2.a) Describe artificial intelligence and machine intelligence.
- b) Explain about logic on the semantic Web. [5+5]

OR

3. Explain in detail about the semantic Web roadmap. [10]

- 4.a) Explain about the Web Ontology Language.
- b) Describe ontology engineering. [5+5]

OR

- 5.a) What are unique features of RDF/OWL? Explain.
- b) Explain ontology mapping and its tools. [5+5]

- 6.a) Discuss about RDF inference engine.
- b) What are semantic Web applications? Explain. [5+5]

OR

7. Discuss about semantic Bioinformatics. [10]

- 8.a) Describe technology adoption of semantic Web.
- b) Explain about Web search agents. [5+5]

OR

9. Explain in detail about limitations of the current Web. [10]

10. Discuss in detail about Web-based networks. [10]

OR

11. Describe Elmo in detail. [10]

---0000---