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Max. Marks: 75

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA V Semester Examinations, April/May - 2019 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

5 × 5 Marks = 25

| 1.a) | Define artificial intelligence. Correlate machine intelligence with this. | [5] |
|------|---|-----|
| b) | What are the merits and demerits of XML for semantic web? | [5] |
| c) | Differentiate between forward chaining and backward chaining. | [5] |
| d) | What is the significance of social network analysis? | [5] |

e) Make a comparison of Jaccard coefficient method and average precision method. [5]

PART - B

5×10 Marks = 50

| 2. | Explain the significance of World Wide Web in the era of ICT – inform Communication and Technology. | nation, [10] | | |
|-------|---|-----------------|--|--|
| 3. | "Berner-Lee's contribution to the Web is remarkable" Support or oppose this sta with suitable illustrations. | tement [10] | | |
| 4. | Explain the basic elements of Resource Description Framework language. | [10] | | |
| OR | | | | |
| 5. | Demonstrate ontology construction with a case study. | [10] | | |
| 6. | How does an inference engine work? Explain with illustrations. | [10] | | |
| OR | | | | |
| 7. | Explain the generic architecture of semantic web applications. | [10] | | |
| 8.a) | Explain the steps involved in creating an OWL-S based Ontology for a Web Service in detail. | | | |
| b) | What is the functionality of Swoogle? | [5+5] | | |
| OR | | | | |
| 9. | What is an electronic discussion network? Is it an electronic source for ne analysis? Justify your answer. | etwork [10] | | |
| 10. | Discuss the features of Blogs that have been used in various studies to establish a network of bloggers. | social [10] | | |
| OR | | | | |
| 11.a) | What criteria have to be met by an application to be considered as a semantic web application? | | | |
| b) | Describe briefly the functionality of Elmo Session class. | [5+5] | | |

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