



R18 Regulation

TKR COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous, Accredited by NAAC with 'A' Grade)

B.Tech VIII Semester Regular Examinations, June 2022

Subject code: 2E8FB

SEMANTIC WEB & SOCIAL NETWORKS
(INFORMATION TECHNOLOGY)

Maximum Marks: 70

Date: 17.06.2022 Duration: 3 hours

- Note:
1. This question paper contains two parts A and B.
 2. Part A is compulsory which carries 20 marks. Answer all questions in Part A.
 3. Part B consists of 5 Units. Answer any one full question from each unit which carries 10M.
 4. Each question carries 10 marks and may have a, b, c, d as sub questions.

Part-A

All the following questions carry equal marks

- 1 Write about ontology?
- 2 Define Machine Intelligence
- 3 What are unique features of UML?
- 4 Give an overview of ontology Web language.
- 5 Write about ontology sharing and merging
- 6 Give the ontology libraries
- 7 Give the four functions to be automated by OWL-S.
- 8 Explain about semantic Web services
- 9 What is the drawback of links feature of web-based network
- 10 Explain about Sesame

(10x2M=20 Marks)

Part-B

Answer All the following questions.

(5X10M=50Marks)

- 11 A. Discuss about logic on the semantic Web.
B. Explain about reasoning with semantic networks. 5+5
OR
- 12 A. Discuss the development of information age and how the Web contributes.
B. What are limitations of semantic Web? Describe the next generation Web. 5+5
- 13 A. Compare and Contrast OWL-DL and OWL-Lite.
B. Explain the advantages of XML over HTML and its limitations. How does RDF address these limitations? 4+6
OR
- 14 A. What are the requirements for web ontology language? What is its relationship with RDF schema?
B. Explain basic elements of RDF language. 6+4
- 15 A. Discuss in detail about RDF inference engine.
B. Discuss about ontology methods, matching and mapping. 5+5
OR
- 16 A. Explain sharing and merging.
B. Discuss about ontology engineering and ontology development tools. 5+5

- 17 A. Discuss about Web search agents.
B. What are semantic methods? Explain. 5+5
- OR
- 18 A. Explain in detail about semantic search technology.
B. Describe semantic search and e-learning. 5+5
- 19 A. Write about Web based Networks.
B. Explain in detail about building Semantic Web applications with social network features. 5+5
- OR
- 20 Explain the following:
A) Elmo
B) Blogs and online communities 5+5