



B.Tech VIII Semester Regular/Supplementary Examinations, April 2023

Semantic Web & Social Networks
(Information Technology)

Maximum Marks: 70

Date:03.05.2023 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 Define Artificial Intelligence
- 2 Write about Semantic Road map
- 3 What is the use of RDF
- 4 Write Owl Capabilities and Limitations
- 5 Define description logic.
- 6 Write the types of Ontology mapping tools
- 7 Write short notes on web search agents
- 8 What is semantic web document
- 9 Define sesame
- 10 Define blogs

(10x2M=20 Marks)

Part-B

Answer All the following questions.

- 11 A. Write about Ontology and explain its key applications. [5M]
B. Discuss the development of information age and explain how the Web contributes. [5M]
OR
- 12 A. Explain about Machine Intelligence. [5M]
B. Discuss about the World Wide Web. [5M]
- 13 A. What are the requirements of Ontology language? [5M]
B. Compare and contrast OWL DL and OWL Lite. [5M]
OR
- 14 A. Explain basic elements of RDF language? [5M]
B. Write about Ontology Web language. [5M]
- 15 A. Discuss about ontology engineering in detail. [5M]
B. Discuss about ontology development tools. [5M]
OR
- 16 A. Explain about ontology "Spot" example. [5M]
B. Explain sharing and merging. [5M]

(10MX 5=50Marks)

- 17 A. Explain about latent semantic index search. [5M]
B. Explain in detail about XML based web services. [5M]
OR
- 18 A. Write short notes on Semantic web services. [5M]
B. Explain in detail about semantic methods. [5M]
- 19 Explain in detail about building Semantic Web applications with social network features. [10M]
OR
- 20 A. Explain in detail about Web based networks. [5M]
B. Explain the generic architecture of semantic Web applications. [5M]