

Code No: **RT42054D****R13****Set No. 1****IV B.Tech II Semester Regular/Supplementary Examinations, April/May - 2019****SOCIAL NETWORKS AND THE SEMANTIC WEB****(Computer Science and Engineering)****Time: 3 hours****Max. Marks: 70***Question paper consists of Part-A and Part-B**Answer ALL sub questions from Part-A**Answer any THREE questions from Part-B************PART-A (22 Marks)**

1. a) Compare and contrast between Web 2.0 and Semantic Web. [4]
b) What is Social network analysis? [3]
c) Write the unique features of RDF/OWL. [4]
d) Mention the basic building blocks for defining equality of social network data. [3]
e) List the dynamic properties of social networks. [4]
f) Write the Similarity measures for graphs for based on edge sets. [4]

PART-B (3x16 = 48 Marks)

2. a) To overcome weaknesses / limitations of present day current Web, what do you propose the next generation should be like? [8]
b) Justify that "The Semantic Web is formulated as a vision points to the problem of bootstrapping the Semantic Web". [8]
3. a) Explain Semantic search technology and web search agents. [8]
b) Discuss in detail about electronic discussion networks. [8]
4. a) Explain three essential types of knowledge that ontology of services provides with suitable examples. [8]
b) Discuss how the number of nodes on the Web creates computational complexity that limits the ability to develop logic proof systems. [8]
5. a) Give a good presentation of Ontology libraries and Ontology mapping. [8]
b) Discuss the ways for multiple identifiers that can be represented in RDF. [8]
6. a) Describe the generic architecture of Semantic Web application. [8]
b) Explain the features of Flink that extracts knowledge about the social networks of the Semantic Web community. [8]
7. a) Discuss the direct comparison of methods for social network mining. [8]
b) How Predicting the goodness of fit can be done in social network analysis? Explain. [8]