

Code No: RT42054D

R13

Set No. 1

IV B.Tech II Semester Supplementary Examinations, June – 2022

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) Explain how HTML limits the manipulation of information. [4]
- b) What are the various measures used in social network analysis? Explain [4]
- c) Briefly discuss about the ontology libraries. [4]
- d) Give ontological representation of social relationships. [4]
- e) List and explain social semantic applications. [3]
- f) Describe how the data is collected in web based social network. [3]

PART-B (3x16 = 48 Marks)

2. a) Describe in detail about the road map in the development of semantic web. [8]
- b) List and explain the limitations of current web. [8]
3. a) Illustrate in detail about the blogs and communities in social network analysis. [8]
- b) State and explain the role and need of social network analysis. [8]
4. a) Describe about the ontology engineering and ontology development tools. [8]
- b) Explain the steps involved in the construction of ontology. [8]
5. a) Illustrates state of the art in social network data representation [8]
- b) Explain the concept of aggregating with social network data? Give examples. [8]
6. a) Describe the concept of open academia in social semantic application. [8]
- b) Explain how Flink is used in building the social networks of the Semantic Web community [8]
7. a) How data can be collected using web? Give pros and cons of each method. [8]
- b) Illustrate in detail about the concept of predicting the goodness of fit in social network? [8]