ME| comp| Sem –II| data based   17/5/2019

(3 Hours)

[Total Marks: 80]

Note: i) Question no. 1 is compulsory

ii) Attempt any three from remaining

iii) Assume necessary data

1. (a) Explain the characteristics of ontology.   5
    (b) Explain node edge diagram for visualizing social networks.   5
    (c) What are advantages of RDF as compared to XML.   5
    (d) What are the business applications of social network analysis?   5

2. (a) Discuss the core methods of community discovery in social networks.   10
    (b) Explain Web ontology language and modeling social network data.   10

3. (a) Explain ontology engineering process in detail.   10
    (b) Evaluate the concept of matrix and node link diagram with their advantages 10
         and disadvantages.

4. (a) Explain open academia in detail.   10
    (b) Explain in detail about layered architecture of semantic web stack.   10

5. (a) Explain Modeling and Aggregating of social Network data.   10
    (b) Explain the different types of visualizations for social networks.   10

6.   Write short note on (any Two)   20

         a) Social Network Analysis techniques
         b) Recommendation systems
         c) clustering

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