Reg. No. : | | | | | | | | | | | |

Question Paper Code: U2914

M.E. DEGREE EXAMINATION, NOV 2024

Professional Elective

Computer Science and Engineering

21PCS514 - SOCIAL NETWORK ANALYSIS

(Regulations 2021)

Duration: Three hours   Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1.	Give the significance of Blogs and wikis in social web	CO1- U
2.	List the static properties of social network	CO1- U
3.	Define Centrality and Clustering	CO1- U
4.	What is Spatial database	CO1- U
5.	Illustrate any one application of community mining algorithms	CO2- App
6.	How to detect the communities in social networks	CO1- U
7.	What is social influence analysis	CO1- U
8.	What is an Evolution net?	CO1- U
9.	What is the Significance of text mining in social networks?	CO1- U
10.	What do you mean by Product review mining?	CO1- U

PART B - (5 x 16 = 80 Marks)

11. (a) How Graph -theoretic measures are employed for semi supervised   CO2-App   (16)
learning in social network analysis.

Or

(b) Enumerate the different dimensions of social networks and their   CO2-App   (16)
related concepts and measures

12. (a) What is a node -edge diagram? Explain with example the process   CO1- U   (16)
of constructing a node-edge diagram

Or

(b) Discuss Using Social Network Analysis in the classroom: a case study applying NodeXL .   CO2-App   (16)

13. (a) Explain with an example the process of aggregating and reasoning with social network data.   CO2-App   (16)

Or

(b) What is a Web Community ?How will you extract web community from a series of web archives   CO1- U   (16)

14. (a) Explain how communities evolve into the learning process as smoothly evolving constellation entities   CO2-App   (16)

Or

(b) Discuss a Case Study on a New Method of Link-Based Link Prediction in the Context of Big Data.   CO2-App   (16)

15. (a) Explain in detail Product review mining and review classification.   CO1- U   (16)

Or

(b) Discuss about the emerging trends and challenges in social media-based sentiment analysis.   CO2-App   (16)

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