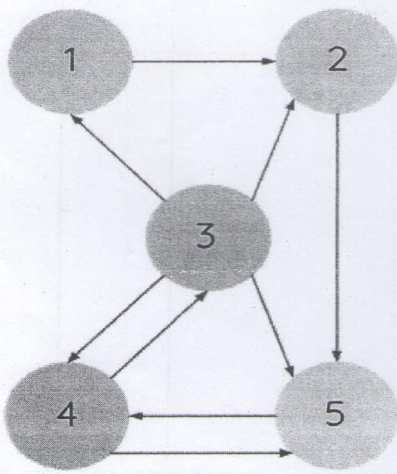


July/Aug 2024
(B.Tech) Program: Computer Engineering Scheme IIB
~~Regular~~/Supplementary Examination: LY Semester: VIII
Course Code: CEDLC8031 and Course Name: Social Media Analytics
Date of Exam: 30.07.2024 Duration: 2.5 Hours Max. Marks: 60

Instructions:				
(1) All questions are compulsory.				
(2) Draw neat diagrams wherever applicable.				
(3) Assume suitable data, if necessary.				
		Max. Marks	CO	BT level
Q 1	Solve any six questions out of eight:	12		
i)	Differentiate between Estimated and Factual data sources.	2	CO1	U
ii)	Define data visualization w.r.t to social media analytics.	2	CO2	U
iii)	Explain query semantics in keyword search?	2	CO3	U
iv)	State the role of networks measures in social media analytics?	2	CO4	U
v)	List the three major categories of individual behavior in the theory of behavior analytics.	2	CO5	U
vi)	How to explore trending topics on Twitter.	2	CO6	U
vii)	List and explain the different tools of text mining.	2	CO2	U
viii)	Identify which of the following triangles are unstable	2	CO5	An
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>(a)</p> </div> <div style="text-align: center;"> <p>(b)</p> </div> <div style="text-align: center;"> <p>(c)</p> </div> <div style="text-align: center;"> <p>(d)</p> </div> </div>				
Q.2	Solve any four questions out of six.	16		
i)	Write about the social media analytics challenges.	4	CO1	U

ii)	<p>Is the given visualization categories with its proper explanation is correct? If not then correct it.</p> <table border="1" data-bbox="300 121 1125 663"> <thead> <tr> <th data-bbox="300 121 406 165">Sr.no</th> <th data-bbox="406 121 662 165">Visualization types</th> <th data-bbox="662 121 1125 165">Explanation</th> </tr> </thead> <tbody> <tr> <td data-bbox="300 165 406 342">1</td> <td data-bbox="406 165 662 342">Structural</td> <td data-bbox="662 165 1125 342">Instead of highlighting the explicit relationships found in the data represents high level attributes & connections of actors & links either implicitly or explicitly inferred from cross-referencing sources</td> </tr> <tr> <td data-bbox="300 342 406 431">2</td> <td data-bbox="406 342 662 431">Semantic</td> <td data-bbox="662 342 1125 431">Topology of a graph that represents the actors and relationships in a social network</td> </tr> <tr> <td data-bbox="300 431 406 564">3</td> <td data-bbox="406 431 662 564">Temporal</td> <td data-bbox="662 431 1125 564">Often correspond to network statistics that represent the structure of network such as degree centrality & clustering coefficient.</td> </tr> <tr> <td data-bbox="300 564 406 663">4</td> <td data-bbox="406 564 662 663">Statistical</td> <td data-bbox="662 564 1125 663">A special type of semantic information that has captured the attention of social network visualization is time.</td> </tr> </tbody> </table>	Sr.no	Visualization types	Explanation	1	Structural	Instead of highlighting the explicit relationships found in the data represents high level attributes & connections of actors & links either implicitly or explicitly inferred from cross-referencing sources	2	Semantic	Topology of a graph that represents the actors and relationships in a social network	3	Temporal	Often correspond to network statistics that represent the structure of network such as degree centrality & clustering coefficient.	4	Statistical	A special type of semantic information that has captured the attention of social network visualization is time.	4	CO2	An
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iii)	Describe the graph exploration by Backward Search.	4	CO3	U															
iv)	How similarity between two nodes can be computed using structural equivalence. Explain with an example.(Assume suitable graph)	4	CO4	U															
v)	Explain the models of Individual behavior modeling.	4	CO5	U															
vi)	How would you define twitter & facebook's social graph API.	4	CO6	U															
Q.3	Solve any two questions out of three.	16																	
i)	Explain the seven layers of social media analytics.	8	CO1	U															
ii)	<p>Calculate the page rank of the following graph.</p> 	8	CO4	Ap															
iii)	What is collective behavior analysis? Explain user migration in social media with example.	8	CO5	U															
Q.4	Solve any two questions out of three.	16																	

i)	a) Explain the different data mining challenges with social media data. (4M) b) Write a short note on Naive bayes. (4M)	8	CO2	U
ii)	Write a short note on a) Graph exploration by bidirectional search b) Index based search	8	CO3	U
iii)	Explain facebook with analyzing the social graph connections.	8	CO6	U

Page 3/3