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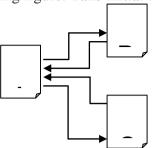
## **GUJARAT TECHNOLOGICAL UNIVERSITY**

Sul Tin	oject 1 ne: 0: tructi	ME – SEMESTER –II-(New)-EXAMINATION – SUMMER-2019 Code: 3722322 Date: 31/05/2019 Name: Web Analytics and Development 2:30 PM TO 05:00 PM Total Marks: 70 ions: Attempt all questions.	
		Make suitable assumptions wherever necessary.  Figures to the right indicate full marks.	
Q.1	(a)	Define Social Network Data. Explain different types of variables in social network.	07
	<b>(b)</b>	How Social network data differ from standard social and behavioral science data. Justify your answer and explain number of measurement issues in social network.	07
Q.2	(a)	Define Following with example.  1) Closed walk  2) Bipartite graphs  3) Isomorphic Graph  4) Diameter of Graph	07
	<b>(b)</b>	Explain random graph model in detail.  OR	07
	<b>(b)</b>	Explain different Information visualization techniques.	07
Q.3	(a)	Explain the purpose of online survey with its benefits and give the details of different online survey tools.	07
	<b>(b)</b>	List out the different types of notations used to represent a social network explain each.  OR	07
Q.3	(a)	For comparing two versions of a webpage or app against each other to determine which one performs better which web analytical tool is used list and explain 3 to 4 tools for same.	07
	<b>(b)</b>	Explain data collection techniques for Social Network.	07
Q.4	(a)	Explain Hyperlink-Induced Topic Search (HITS).	07
-	<b>(b)</b>	What is the importance of link analysis in SEO .Explain Hubs and Authorities.	07
	\ - <i>/</i>	OR	-
Q.4	(a)	Explain Diffusion of Innovation model with its characteristics.	07
-	<b>(b)</b>	How affiliation and identity affect social connection explain in detail.	07
Q.5	(a)	List all page ranking factors. Explain any 4 of them.	07

OR

**(b)** What is web crawling and indexing? Differentiate both with example.

07



(b) Consider a situation where you are having a business of super market. And you are developing web site of your business. In this case, discuss various factors that will affect Crawling operation of search engine.

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07