

MI-8402

## Winter 2024 ▼



#### **Model Questions**

#### SKR/KW/24/2667/2673/2680/2686

(Contd.)

# Faculty of Science & Technology Eighth Semester B. Tech. Computer Science & Engineering/CE/IT/CT (CBCS) Examination SOCIAL NETWORKS PROG ELE - VI

Time—Three Hours] [Maximum Marks—70 INSTRUCTIONS TO CANDIDATES (1) All questions carry marks as indicated. (2) Solve Question No. 1 OR Question No. 2. (3) Solve Question No. 3 OR Question No. 4 (4) Solve Question No. 5 OR Question No. 6 (5) Solve Question No. 7 OR Question No. 8 (6) Solve Question No. 9 OR Question No. 10 (7) Due credit will be given to neatness and adequate dimensions. (8) Assume suitable data whenever necessary. (9) Illustrate your answers whenever necessary with the help of neat sketches. 1. (a) What is Social Network? Explain in brief. 7 (b) Explain in detail social network dataset OR (a) Explain Google page rank in detail. (b) What are the different social network challenges? Explain (a) Explain marketing on Social Networks. (b) Explain different types of Searching in a network OR (a) Explain about Dijkstra's algorithm (b) What is Synonymy Network? Explain in detail. (a) Describe in detail about data set analyzing using graph. (b) Write short note on Graph partitioning. OR



## Winter 2024 ▼



## **Model Questions**

	6.	(a)	Differentiate between strong ties and weak ties.	/		
		(b)	Describe in detail about data set analyzing using Networkx.	7		
	7.	(a)	Describe about Structural balance.	7		
		(b)	Explain about Community Detection Using Girvan Newman Algorithm.	7		
OR						
	8.	(a)	Discuss about Strong and Weak Relationship in Social Network.	7		
		(b)	Explain Rich-Get-Richer Phenomena in detail.	7		
	9.	(a)	Explain selection and social Influences in detail.	7		
		(b)	Explain Modelling diffusion in detail.	7		
OR						
	10.	(a)	Write a short note on Web graph.	7		
		(b)	Explain about the small world Phenomenon	7		

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## Summer 2024 ▼



## **Model Questions**

#### PRS/KS/24/2944/2950/2956/2962

#### Faculty of Science and Technology

## $B. Tech. \ (Computer\ Science\ and\ Engineering/CE/IT/CT)\ Semester-VIII\ (C.B.C.S.)\ Examination\\ SOCIAL\ NETWORKS$

#### PROG ELE - VI

Time:	Three Hours]	[Maximum Marks: 70			
	INSTRUCTIONS TO CANDIDATES				
(1	All questions carry marks as indicated.				
(2	Solve question 1 OR question No. 2.				
(3	Solve question 3 OR question No. 4.				
(4	Solve question 5 OR question No. 6.				
(5	Solve question 7 OR question No. 8.				
(6	Solve question 9 OR question No. 10.				
(7	Due credit will be given to neatness and adequate dimensions.				
(8	Assume suitable data wherever necessary.				
1. (a	Explain Social Network in detail.	7			
(b	Explain the challenges in social network.	7			
	OR				
2. (a	What are the social network dataset?	7			
(b	Explain searching in network.	7			
3. (a	Explain Granovetter's strength of weak ties.	8			
(b	Explain validation of Granovetter's experiment using cell phone data.	6			
	OR				
4. (a	Explain community detection using Girvan Newman algorithm.	8			
(b	Explain search the communities in a graph by using brute force method				
5. (a					
(b		7			
	OR				
6. (a		8			
(b		6.			
7. (a	The state of the s	8			
(b		6			
	OR				
8. (a	,	6			
(b		8			
9. (a		6			
(b	5	8			
OR					
10. (a		6			
(b	Explain small world phenomenon in social network.	8			
MH—61		10			