

**NATIONAL FORENSIC SCIENCES UNIVERSITY**

M.Sc. Cyber Security - Semester - III Jan-2023

M.Sc. Digital Forensics - Sem III - Jan 2023

Subject Code: CTMSCS SIII P5 EL1, CTMSDFS SIII P5 EL2

Date: 16/01/2023

Subject Name: Social Network Analysis

Time: 11:00 to 2:00

Total Marks: 100

**Instructions:**

1. Write down each question on separate page.
2. Attempt all questions.
3. Make suitable assumptions wherever necessary.
4. Figures to the right indicate full marks.

			Marks
Q.1	(a)	Explain difference between social media and social network.	05
	(b)	What do you mean by Google Dorks?	05
	(c)	Write a note on different social network platforms.	07
Q.2	(a)	What do you mean by metadata. Explain with example.	05
	(b)	Write a note on cyber psychology.	05
	(c)	Explain email forensics. Explain email header tracking and tracing.	07
Q.3	(a)	Explain OSINT with its types.	08
	(b)	Write a case study on fake social media profile investigation.	08
Q.4	(a)	Write a short note on API and its benefits in Social Network investigation.	05
	(b)	Explain terms person profiling and organization profiling through social media intelligence.	05
	(c)	What do you mean by fake news? How can the fake news related incident can be investigated through social network analysis?	07
Q.5	(a)	Explain the term social engineering using social media.	05
	(b)	What do you mean by data breach? How data breach dumps can helpful in collecting intelligence?	05
	(c)	Explain graph theory with nodes, edges, unidirectional and bi-directional linkages.	07
Q.6	(a)	Discuss security and privacy functionality in different social network platforms for hardening the security of any user account.	08
	(b)	Write a brief note on surface web, deep web and dark web.	08