

Appendix A

Items of the Cybersecurity Literacy Assessment Scale (CLAS)

Response format: Yes = 1, No = 0, Uncertain = 0

Component	Item	Statement
1. Protecting Devices and Digital Content (PRO_DEV)	X1	I know that functions such as Bluetooth, location sharing, microphone access, and camera access should be turned off when they are not needed.
	X2	I know how to set a screen lock or password to protect my digital devices from unauthorized access.
	X3	I understand that public Wi-Fi should be used with caution and avoided when it is not necessary.
	X4	I can identify different types of digital threats, such as malware, phishing, scams, or unsafe links.
	X5	I can judge whether a link in a message, email, website, or text message is safe or unsafe to click.
	X6	I know how to protect my personal data if someone shares my information without permission.
	X7	I understand that I should not take or share photos of others online without their permission.
	X8	I know that online fraud or cybercrime can be reported through official channels, such as www.thaipoliceonline.com .
	X9	I understand the importance of keeping personal data secure.
	X10	I avoid registering through suspicious links, especially on websites without a clear domain name or reliable security indicators.
	X11	I avoid giving personal information to suspicious online surveys or websites.
	X12	I am cautious when receiving messages or emails from unknown senders.
2. Protecting Personal Data and Privacy (PRO_PER)	X13	I understand that a strong password should include a combination of uppercase letters, lowercase letters, numbers, and symbols.
	X14	I know how to back up my personal data safely.
	X15	I avoid sharing personal data carelessly on online platforms.
	X16	I understand that I should not disclose sensitive personal information online, such as my full name, address, phone number, or national identification number.
	X17	I carefully review the terms and conditions of websites or applications before providing personal information online.
	X18	I know how to adjust privacy settings on digital platforms.
	X19	I know how to turn off location sharing in applications when it is not necessary.
3. Safe and Secure Use (SAFE_SEC)	X20	I know how to use online communication services safely, such as setting meeting passwords and managing participant permissions.
	X21	I avoid sharing files or documents that contain personal information through digital platforms without appropriate privacy settings.
	X22	I can identify suspicious or unreliable emails by checking the sender's name, email address, and domain.
4. Secure Identity Management (SECU_IDE)	X23	I know how to maintain a positive digital identity by avoiding online words or actions that may harm others.
	X24	I know how to manage access permissions to my personal data in online environments.
	X25	I understand the importance of setting access controls for digital devices, accounts, and personal data.
	X26	I understand that I should not use the same password for multiple accounts.
	X27	I do not impersonate others by using their photos, names, or personal images.
	X28	I do not misuse images, videos, or other digital content that belongs to others.
	X29	I avoid posting comments or participating in online activities that may harm, insult, or embarrass others.
	X30	I ask for permission before using or sharing another person's photos or videos online.

Appendix B**Item-Level Content Validity Index (I-CVI) Results of the CLAS**

Component	Item	Expert					No. Relevant	I-CVI	Interpretation
		1	2	3	4	5			
1. Protecting Devices and Digital Content	X1	4	4	3	4	4	5	1.00	Acceptable
	X2	4	3	4	4	3	5	1.00	Acceptable
	X3	3	4	3	4	4	5	1.00	Acceptable
	X4	4	3	2	4	3	4	.80	Acceptable
	X5	4	4	4	3	4	5	1.00	Acceptable
	X6	3	4	2	3	4	4	.80	Acceptable
	X7	4	4	3	4	4	5	1.00	Acceptable
	X8	3	4	4	4	3	5	1.00	Acceptable
	X9	4	3	2	4	4	4	.80	Acceptable
	X10	4	4	3	2	4	4	.80	Acceptable
	X11	4	4	4	4	3	5	1.00	Acceptable
	X12	3	4	4	2	4	4	.80	Acceptable
2. Protecting Personal Data and Privacy	X13	4	4	3	4	4	5	1.00	Acceptable
	X14	3	4	2	4	3	4	.80	Acceptable
	X15	4	4	4	3	4	5	1.00	Acceptable
	X16	4	3	4	4	4	5	1.00	Acceptable
	X17	3	4	2	4	4	4	.80	Acceptable
	X18	4	3	4	2	4	4	.80	Acceptable
	X19	4	4	3	4	3	5	1.00	Acceptable
3. Safe and Secure Use	X20	4	3	2	4	4	4	.80	Acceptable
	X21	3	4	4	2	4	4	.80	Acceptable
	X22	4	2	3	4	4	4	.80	Acceptable
4. Secure Identity Management	X23	4	4	3	4	4	5	1.00	Acceptable
	X24	3	4	2	4	4	4	.80	Acceptable
	X25	4	4	4	3	4	5	1.00	Acceptable
	X26	3	4	2	4	3	4	.80	Acceptable
	X27	4	4	3	4	4	5	1.00	Acceptable
	X28	4	4	4	4	3	5	1.00	Acceptable
	X29	4	3	4	2	4	4	.80	Acceptable
	X30	3	4	4	4	4	5	1.00	Acceptable