



# Daffodil International University

Faculty of Science & Information Technology

Department of Computer Science and Engineering

Final Examination, Spring 2025

Course Code: CSE431, Course Title: Social and Professional Issues in Computing

Level: L-3, T-1

Batch:63

Time: 02:00 Hrs.

Marks: 40

## Answer ALL Questions

*[The figures in the right margin indicate the full marks and corresponding course outcomes. All portions of each question must be answered sequentially.]*

1.	Alex opens an email attachment from a supposed supplier. Her screen locks, and a message appears: " <b>Your files are encrypted! Pay \$10,000 in Bitcoin or lose them forever.</b> " Desperate, she contacts an IT expert, realizing she's a victim of ransomware.		CO1
	a) Do you think hactivism is ethical? <b>What</b> kinds of computer crime have you or someone you know experienced?	5	
	b) Should hackers who did not intend damage or harm be punished differently than those with criminal intentions? <b>Explain</b> your opinion.	5	
2.	A lead developer at TechDIU discovers that the facial recognition software their team built is secretly being sold to autocratic governments, potentially enabling mass surveillance and suppression of opposition. The developer is bound by a strict non-disclosure agreement (NDA) but feels morally compelled to expose the misuse. After raising concerns internally and being ignored, he considers whistleblowing by leaking confidential documents to the media. However, this action could lead to severe legal consequences, loss of his career, and potential retaliation.		CO2
	(a) <b>Analyze</b> the ethical dilemma faced by the developer using character ethical, deontological, and utilitarian perspectives.	5	
	(b) <b>Evaluate</b> the role of whistleblowing in professional ethics and discuss its potential risks and benefits based on this scenario.	5	
3.	a) A startup company is developing a new AI-powered image generator. They train the AI using millions of copyrighted images from the internet without permission. Is this a violation of intellectual property rights? Why or why not? <b>Develop</b> two possible legal or ethical solutions for the company?	5	CO2
	(b) A well-known open-source developer discovers that a large corporation has used his code in a commercial software product without crediting or compensating him. <b>Discuss</b> whether this is a copyright violation or a licensing issue. Suggest legal actions the developer can take under open-source licensing rules.	5	
4.	a) <b>Analyze</b> two historical cases where software failures led to significant consequences. What lessons were learned from these incidents?	5	CO2
	b) If a developer modifies the someone else's developed app and adds unique features, can they claim fair use? <b>Determine</b> whether this case qualifies as fair use or copyright infringement based on relevant legal factors.	5	