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Daffodil International University

Faculty of Science & Information Technology
Department of Computer Science & Engineering
Final Examination, Fall 2025
Course Code: CSE431 Course Title: Social and Professional Issues in Computing
Level:4 Term:3 Batch:61

Time: 02:00 Hrs **Marks: 40**

Answer ALL Questions [Optional]

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

1.	Suppose Rumi has joined as a safety inspection officer to a company that produces fire control and alarm systems. The project is already delayed by one week and during inspection she finds a major flaw in the system, but her project manager encourages her to skip reporting it. He argues that the flaw occurrence rate is less than 1% and reporting it will delay the project deadline even more, which can cause the company financial loss. However, she disagrees with the manager and reports it to higher authority as Rumi feels obligations and responsibility of her job do not allow to ignore this kind of serious issue. After understanding the huge financial loss and low change of failure in the fire control and alarm system under ideal conditions, as assured by higher authorities, Rumi agrees to continue the project.		
a)	Based on the scenario with manager, identify which types of ethics Rumi is using and explain with proper justifications.	5	CO4
b)	Identify the ethics framework Rumi is using in the later scenario and explain how this differs from previous ethics type.	5	CO4
c)	What do you understand by Professional Ethics? Discuss the ethical guidelines for computer professionals.	10	CO3
2.	After graduation, Nerob, a student of Daffodil International University, started a company which produces smart kitchen gadgets. For his company, he chose a unique logo and a phrase which attract young customers. In his company, he develops various smart gadgets, such as the Music Air Fryer, which though advanced technologies, can produce the same result with 50% less electricity usage. Moreover, based on the items that are cooking, this fryer built-in speaker, play trending singers famous songs. To use this Fryer effectively and safely, he also makes video tutorial to guide the customer.		
a)	Identify the types of Intellectual Property that are present in the given scenario. Determine which type of protection is appropriate for each of those intellectual properties.	5	CO4
b)	Apply the Code of Ethics to explain why using famous songs decision violates his professional responsibility, regardless of whether he gets caught.	5	CO3
3.	Explain the categories of computer errors and failures? Describe each category with a real-life example.	10	CO3