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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:2 Batch:62**

**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.]*

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|---|---|---|---|
| **1.** | Mahi is a Senior Systems Analyst at a hospital. During a major database migration, he encounters several challenges:<br>• Mahi mistakenly erases a week's worth of patient appointment records. Instead of attempting to hide a restoration/rebuild or pointing the finger at a server failure, he immediately tells his boss and admits that the error was his fault.<br>• As Mahi browses the database, he finds the medical records of a well-known film star who is in the hospital for secret treatment. Mahi's friends demand to know the details, Mahi refuses to speak or reveal details to anyone outside of his medical team.<br>• Mahi is in charge of buying new servers. His cousin owns a computer shop and asks for the contract. However, Mahi sets aside his personal relationship and evaluates all vendors based solely on price and performance to ensure the hospital gets the best deal.<br>• A programming bug lets the hospital charge insurance companies a bit more than what's legally permitted. His manager suggests leaving it for a month to generate extra revenue. Mahi refuses, stating that they must strictly follow government healthcare regulations. | | **CO3** |
| **a)** | Based on the scenario with manager, identify components of ethics Mahi is demonstrating and explain each identified compounded with proper justifications. | 10 | |
| **b)** | Explain the term "Codes of Ethics" and describe both its positive roles and limitations. | 5 | |
| **c)** | Explain the types of normative ethics and identify real life scenario where each type of ethics will be suitable. | 5 | |
| 2. | Raju is a local singer who used to perform in his local area and concerts. After hearing about social media, where he can upload his songs, he uploads some of his favorite songs, which within few months, gets a million views. However, after some day's he notice that his songs are not getting as many views as they used to. After searching online, he finds that various other creators have reuploaded his song videos without any consent or giving credit. | | **CO4** |

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|---|---|---|---|
| a) | Identify Intellectual Property present in the scenario. Determine which type of protection is appropriate for Raju's work. | 5 | |
| b) | Apply "Three groups of solution" to propose solutions that Raju can take to address Intellectual Property violation. | 5 | |
| **3.** | A garments factory in Gazipur uses computerised system to record worker attendance and calculate salary. In recent times, employees have observed that the extra hours worked are not being accounted for and the wages are being miscalculated. Later, the factory finds that the system is old, the new software update was not tested properly, and the system crashed many times. The IT team also ignored warning messages because they thought "the system usually works." Now management is worried because wrong salary may create worker problems and even legal issues. | | |
| **a)** | Identify the main technical, ethical, and operational problems in this case. Explain how these problems create risk for workers and the factory. | 5 | **CO3** |
| **b)** | Apply principles of reliability and safety to propose the steps that the management of that organization can take to increase safety. | 5 | CO4 |

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