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Daffodil International University

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

Time: 01:30 Hrs **Marks: 25**

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.	Lira has recently become interested in how people connect and share ideas through online communities. She observes that many individuals actively participate in discussion forums, social media groups, and professional networks to exchange knowledge and experiences. Lira wonders how these virtual spaces influence personal growth, learning, and collaboration among members from diverse backgrounds. She is particularly curious about how people benefit emotionally and intellectually by engaging with others who share similar interests or challenges Explain the benefits of participating in online communities. Provide examples of how individuals can gain knowledge and support through these interactions.	[5]	CO1
2.	A senior employee at a commercial bank is preparing a financial performance report that includes customer account details such as names, account numbers, and transaction histories. While intending to share the report internally with the branch manager, the employee mistakenly attaches the full spreadsheet and sends it to an external business client via email. The file contains thousands of customers' personal and financial records, and the client later reports receiving the data unintentionally. The bank immediately begins an internal investigation and informs affected customers. Identify the category of privacy threat illustrated in this scenario. Explain your answer with justification, describing why it fits this category and not the others.	[5]	CO2
3.	Arafat is a graduate student in the Department of Public Health, working on a research project to understand health and lifestyle habits among university students. His study aims to explore patterns in exercise routines, diet, sleep habits, and mental health, with the goal of identifying trends that could inform wellness programs on campus. To collect this information, Arafat plans to design an online survey and send it to students via email and social media groups. He is considering storing all collected data on his personal cloud account for convenience and easy access while analyzing it for his research paper. Arafat is eager to gather as much data as possible to ensure his research is comprehensive. However, he is not entirely sure which principles or practices he should follow to collect and handle the data ethically and securely. Identify and explain the Fair Information Principles that Arafat should follow to collect, store, and use the data responsibly.	[5]	CO2

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4.	On a widely used social media platform, a user publishes a comment expressing a controversial political opinion. While some members of the community perceive the post as a legitimate exercise of free expression, others report it as offensive and potentially harmful to a specific social group. The platform's content moderation team faces a complex dilemma, removing the post may be interpreted as a restriction on freedom of speech, whereas permitting it to remain could be construed as tacit endorsement of harmful or discriminatory content. The ensuing debate rapidly spreads among users, highlighting tensions between individual expression, community safety, and societal norms. Evaluate how online platforms can balance the right to free speech with the need to prevent offensive or harmful content. What ethical and social considerations should guide their decisions?	[5]	CO1
5	A cybercriminal sends emails that appear to come from a well-known online banking service, asking customers to verify their account details due to a supposed "security update." Some recipients, believing the emails are legitimate, enter their personal information and login credentials. The cybercriminal uses this information to access victims' accounts, steal money, and potentially install malware on their devices. The incident raises concerns among customers and cybersecurity experts about how easily online identities can be faked and the risks of falling for such deceptive tactics. Based on the scenario, identify the type of cybersecurity attack involved and discuss the preventive measures organizations and consumers can take to protect themselves against such attacks.	[5]	CO1