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Daffodil International University

Department of Electrical and Electronic Engineering

Faculty of Engineering

Midterm Examination, Fall-26

Course Code: 0223-121
Section: A, B, C, D, E, F, G
Full Marks: 25

Course Title: Art of Living & Engineering Ethics
Level-Term: L2-T2
Exam Date: November 4, 2026

Teacher's Initial: *JMT, HH*
Time: *1.5 Hours*

All questions are compulsory. The second rightmost column indicates the corresponding Course Outcomes (COs) along with their respective Bloom's Taxonomy levels, and the rightmost column indicates the allocated marks for each question.

Q1. A newly appointed mechanical engineer works in a multidisciplinary engineering team. During project meetings, the engineer frequently interrupts colleagues, ignores alternative opinions, and communicates technical decisions without considering their effects on other team members. As a result, misunderstandings arise and cooperation within the team declines. **CO-2 (C4)** **[3+3 =6]**

(a) **Analyze** how the engineer's lack of professional etiquette may affect teamwork, workplace relationships, and professional responsibilities.

(b) **Analyze** three professional practices the engineer should adopt to improve communication, mutual respect, and collaboration within the team.

Q2. **Apply** the fundamental principles of mind mapping to show how information can be organized for effective learning. **CO-1, (C3)** **[6]**

Q3. Two engineers are involved in reviewing a major engineering project when they discover a safety problem that could affect users if the project proceeds. The project is already close to completion, and stopping it would cause significant financial losses and delay the expected benefits to the public. After discussing the issue, both engineers recommend that the project should not proceed until the safety concern is addressed. Engineer A explains that the decision is necessary because engineers are expected to follow the established professional requirements and organizational rules governing safety. Engineer B agrees with the decision but considers the interests of the organization, the affected users, and other stakeholders, seeking a solution that balances the needs of all parties and minimizes harm while maintaining caring relationships. **CO-1 (C3)** **[7]**

(a) **Apply** Kohlberg's theory of moral development to classify the moral reasoning of Engineer A and Engineer B according to their respective levels of moral development.

(b) **Relate** Engineer B's moral reasoning to the relevant level of moral development by applying Gilligan's theory.

Q4. **Analyze** the steps for resolving a moral dilemma and explain how each step helps an engineer fulfill their responsibility toward society in reaching an ethical decision. **CO-2 (C4)** **[6]**