NED UNIVERSITY OF ENGINEERING & TECHNOLOGY

SECOND YEAR (COMPUTER SYSTEMS ENGINEERING)

SPRING SEMESTER EXAMINATIONS 2020

BATCH 2018

Dated:25-09-2020

Time: 2 Hours

Max.Marks:30

Professional Ethics - HS-219

Instructions

Attempt all questions. Be relevant and legible in your answers. Marks and CLO for each question are given at the end of the question.

Q1. How can risk apprehensiveness/fear be reduced? Discuss with the reference to any three factors. [5] CLO1

Q2. Read the given case study carefully and answer the following questions. [8] CLO2

"Engineer A was Chief Engineer of a plant that processed raw ore. The refining process involved several dangerous chemicals, which were re-captured and re-circulated; however, careful operation was essential to prevent these chemicals from escaping into the wastewater. Engineer A worked alongside the Operations Manager, and both of them reported to the Plant Director. Engineer A was responsible for technical matters, such as design, maintenance, and safety. The Operations Manager was responsible for hiring, scheduling, and meeting production targets. Both the Operations Manager and the Plant Director were older than Engineer A, but neither was a Professional Engineer nor a Professional Geoscientist.

During the first few months on the job, Engineer A reviewed, updated, and improved the plant *Operating Manual* prepared by the previous Chief Engineer. Engineer A ensured that copies of the manual were available to the plant operating staff and personally conducted several training sessions for key operating staff. In spite of these efforts, however, Engineer A observed many infractions of the *Operating Manual* throughout the plant, and he could see that the toxic chemicals were possibly escaping into the wastewater. Engineer A considered this lax attitude toward safety to be very risky. Tests of the wastewater effluent showed wide variations of the escaping chemicals, with concentrations that occasionally reached the legal limits. On several occasions, Engineer A initiated disciplinary measures against operating staff, but these were dealt with lightly by the Operations Manager, for whom the staff worked. Engineer A eventually came to understand that the Operations Manager put production ahead of safety and was casual

about enforcing the safety provisions in the *Operating Manual*.
Finally, Engineer A warned the Operations Manager about these unsafe practices in writing and demanded that infractions be disciplined more severely. As a last resort, Engineer A went

directly to the Plant Director and explained the problem, but the Director simply said, “Work it out among yourselves.”

Question: *If you were Engineer A, what would you do at this point?”* support your answer with ethical theories PEC and IEEE Code. Your answer should be in continuous writing paragraph form.

Q3. Suppose you are head of a department, someone brings you a gift but you are not sure whether it is a gift or bribe. What three strategies will you use to ensure that the brought item is a gift, briefly explain each strategy? [6] CLO 3

Q4. Conflicts are inevitable in the workplace. Suggest three principles to manage conflict, discuss each principle concisely. [5] CLO 4

Q5. Collective bargain (union) has both merits and demerits. Discuss both sides of the collective bargain and support each side with two points. [6] CLO 4