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Program: DTE 1st Semester
Semester: Winter

Date: Friday, 22 December, 2023
Time: 9:00 am – 12:00 pm

ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT)
ORGANISATION OF ISLAMIC COOPERATION (OIC)
DEPARTMENT OF TECHNICAL AND VOCATIONAL EDUCATION (TVE)

Exam: Semester Final Examination
Course Number: TVE 4151
Course Title: Technical & Vocational Education Ethics & Society

Academic Year: 2022 – 2023
Full Marks: 150
Duration: 3 Hours

There are 8 (eight) questions. Answer any 6 (six) questions.

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| 1. a) | According to the Engineering Criteria 2000 of the Accreditation Board for Engineering and Technology (ABET) in the US, engineering graduates must have "an understanding of professional and ethical responsibility". Explain, with justification, why there is an increasing attention to ethics in engineering curricula. | 5 | CO1
PO7 |
| b) | Why is it important to consider ethical issues that may raise during an engineering product design process? Choose a product that is designed in your own discipline. Make an overview of ethical issues that are raised by the design of this product at all the design stages. | 20 | CO4
PO7 |
| 2. a) | Describe the main ideas of "normative relativism." What are the criticisms of normative relativism? | 10 | CO3
PO7 |
| b) | John Stuart Mill has argued that Kant's ethics is really a masked version of consequentialism because the consequences of actions do play an important role in his ethics – in spite of what Kant himself says. | 15 | |
| | i. Why do you think that Mill is arguing this despite the fact that Kant himself denies that consequences are relevant to his theory? | | |
| | ii. Do you agree with Mill? Explain why or why not. | | |
| 3. a) | Describe the main ideas of Bentham's utilitarianism. What criticism of Bentham's theory did Mill articulate? | 10 | CO3
PO7 |
| b) | Suppose that it is possible to download copyrighted music through the Internet without paying for it. Suppose that the makers of such music (the artists) do not want their music freely copied in this way. | 15 | |
| | i. How would Kant address the question of whether it is morally permissible to download such music by such artists without paying for it? Explain in detail what a Kantian would say. | | |
| | ii. Would a utilitarian give a different answer? Why or why not? | | |
| 4. a) | Differentiate between values, norms and virtues with examples. | 9 | CO3 |
| b) | "If norms have no meaning – there is no underlying values". Justify this statement. | 6 | PO7 |
| c) | Describe the following two ethical principles according to Kant's theory. | 10 | |
| | i. Universality principle | | |
| | ii. Reciprocity principle | | |
| 5. a) | Define <i>Role responsibility</i> of an engineer. How do you differentiate <i>Role responsibility</i> from <i>Moral responsibility</i> and <i>Professional responsibility</i> ? Explain with examples in engineering practice. | 12 | CO2
PO7 |

- b) "Your professional responsibility as engineer may sometimes conflict with your responsibility as employee." – Do you agree with this statement? Justify your answer in light of the models dealing with tension and potential conflict between engineers and managers. 13
6. a) What does that mean by whistle-blowing from the ethical perspectives. Explain with examples. What guidelines are recommended for a whistle-blower? 15 CO1 PO7
- b) Give an example where you had a moral obligation to blow the whistle in spite of the very negative consequences for you, such as dismissal or not making the grade? Justify the situation. 10
7. a) Give an example of a situation in which you have a professional responsibility to do something but not a legal responsibility. 10 CO1 PO7
- b) What are the ethical and effective communication styles with supportive and uninformed types of people. Explain their characteristics and your strategies for effective communication with them. 15
8. a) Explain the following elements of the various kinds of corporate codes: 16 CO2 PO7
- i. Mission statement
 - ii. Core values
 - iii. Responsibility to stakeholders
 - iv. Rules and norms.
- b) Differentiate between the following terms: 9
- i. Morality and ethics
 - ii. Profession and occupation.