

Program: B.Sc. EEE 2nd Semester
Semester: Summer

Date: 05 May, 2023 (Friday)
Time: 10:00 am – 01:00 pm

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

Exam: Semester Final Examination
Course Number: Hum 4225
Course Title: Professional Ethics and Legal Issues

Academic Year: 2021 - 2022
Full Marks: 150
Duration: 3 Hours

There are 8 (eight) questions. Answer any 6 (six) questions. The symbols have their usual meaning.

1. a) Elaborate the pessimist point of view related to the technological progress. 10 CO2 PO2/
b) Write a short proposal on how you would solve the electrical grid related 15 CO3 PO6
deaths and water shortage problem in your country in light of "Quick Fix" and
"Social Engineering".
2. Discuss the following in light of the notion of Shared Responsibility and Control
of technology:
a) Einstein regretting his initial support for the nuclear arsenal. 10 CO3 PO8
b) Creation of the tomato harvester that has negative impact on the small farmers 15 CO3
and the nature of the tomato.
3. a) Why do you think that engineers should not depend on the minimal standard 15 CO1
introduced by the law? PO2/
b) Analyze how the industrial standard could be exploited to create unethical PO4
monopoly in the market, especially in the electrical and electronic industries. CO2
4. a) Discuss the notion of "Public Good" in light of Islam. 10 CO1
b) Imagine that you have decided to develop an electrical power plant as a 15 PO2/
qualified engineer and decision-maker of a given corporation in a certain PO8
locality. Explain the ethical steps you should take before initiating the project. CO3
5. a) Analyze the engineers' refusal to give a go to the Challenger for its first flight 15 CO3
in 1986 in light of the Right of Conscientious Refusal. PO8
b) Elaborate the widely applicable principles for conflict resolution. 10 CO2
6. It is most likely that you would be given preference in the hiring process of the 25
defense industries in your country as a graduate of electrical and electronic CO3 PO8
engineering. Soon after your appointment, you have come to know that the
industry is involved in the manufacture of weapons of mass destruction. Explain
the ethical strategies you could follow in such case, considering the fact that you
are the breadwinner of your family in a third world country.
7. Many of the Engineers work as consulting engineers considering the greater
freedom to make decisions about the projects they undertake. Explain the ethical
norms they should follow while running their firms in the following issues:
a) Advertising, 10 CO3 PO8
b) Safety and client needs. 15 CO3
8. Write short notes on the following:
a) Biased software and stock market manipulation, 10 CO2 PO2/
b) Computer and job elimination, and 05 CO2 PO4/
c) International Human Rights. 10 CO3 PO8