25 CO2 PO4

15 CO3 PO8

25 CO3 PO8

10 CO3 PO8

> CO<sub>3</sub> PO8

> CO<sub>3</sub> PO4

10 CO3 PO2

Program: B.Sc.E.E.E 2nd Semester Date: May 20, 2024 (Monday Semester: Summer Time: 10:00 am - 1:00 pm ISLAMIC UNIVERSITY OF TECHNOLOGY (IUT) ORGANISATION OF ISLAMIC COOPERATION (OIC)

DEPARTMENT OF TECHNICAL AND VOCATIONAL EDUCATION (TVE) Examination: Final Semester

Course Number: Hum 4225 Full Marks: 150 Course Title: Professional Ethics and Legal Issues Time: 3 Hours

Academic Year: 2022 - 2023

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

 a) Elaborate the notion of "Technological Determinism". CO2 b) Write a short proposal on how you would solve the highway killings and water 15 CO3 PO6 shortage problems in your country in light of "Ouick Fix" and "Social Engineering".

people protest, but to no avail. Elaborate what you feel the role of MNCs should be in 3. Present and defend your view as to whether affirmative action is morally permissible and

desirable in:

i. Advertising

ii. Safety and client needs

Write short notes on the following i. Biased software and stock market manipulation ii. Al and job elimination

i. Admissions at engineering schools. ii. Hiring and promoting within engineering cornorations. a) Explain the notion of "Informed Consent".

workplaces for the smooth operation of corporate industries.

follow while running their firms in the following issues:

iii. Difference between standard experimentation and engineering

2. Many of the OIC member countries? natural resource boom led to increased corruption. lower living standards of the poor and political instability. Multinational Corporations (MNCs) are accused of having disregarded the safety and livelihood of local people 25 CO3 PO8 while installing their heavy machineries, communication and production lines. Local

b) Imagine that you have decided to develop a nuclear desalination plant in a certain coastal area suffering of acute shortage of drinkable water. Explain the ethical steps you should take before initiating the project as a qualified engineer and decisionmaker of a given corporation.

Corporate tradition tells us that engineers more often come into conflict with the managerial body, as in most cases they aim at maximization of profits only. Analyze the 25 CO3 PO8 widely applicable principles for conflict resolution engineers should apply in their

Imagine that your country has entered the aviation industry era. Learning from the past we can predict that soon it will be developing its flying war machines in form of fighter jets capable of carrying nuclear bombs. Analyze its necessity in light of "Mutual

Deterrence" and the problems the defense industries could face in that case. Also propose 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