

Program: B.Sc. EEE 2<sup>nd</sup> Semester  
Semester: Summer

Date: 08 March, 2024 (Friday)  
Time: 10:00 am – 11:30 pm

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

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

**Academic Year:** 2022 - 2023  
**Full Marks:** 75  
**Duration:** 90 minutes

There are 4 (four) questions. Answer any 3 (three) questions. The symbols have their usual meaning.

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|----|----|--|----|-----|------|
| 1. | a) | Discuss how morally committed corporations like Compaq and SELF played positive role in environmental leadership.  | 10 | CO2 | PO8  |
|    | b) | Explain as to why the notion of "Market Mechanism and Internalizing Costs" is necessary for the OIC member countries.  | 15 | CO2 | PO8  |
| 2. | a) | Discuss the notion of "Sustainable Development (SD)" introduced by the UN.   | 08 | CO2 | PO8  |
|    | b) | Briefly discuss the notion of Sustainable Development (SD) in light of al-Quran and Sunnah.  | 07 | CO2 | PO8  |
|    | c) | There were several environment friendly water and power supply hydraulic technologies introduced by the medieval Muslim engineers to meet the demand of urban planning which are also re-evaluated by the modern day sustainable energy researchers. Which one do you think would be most suitable to be adopted by your country to solve their water and power shortage problems and how? | 10 | CO3 | PO10 |
| 3. |    | Discuss what you see as the main similarities and differences between Three Mile Island and Chernobyl disasters.   | 25 | CO2 | PO8  |
| 4. |    | Write short notes on the following:  |    |     |      |
|    | a) | Risk benefit analysis  | 08 | CO1 | PO1  |
|    | b) | Transfer of Technology and Appropriate Technology  | 10 | CO1 | PO1  |
|    | c) | Improved safety  | 07 | CO1 | PO1  |