

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

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

**Summer Semester: 2020 - 2021**  
**Full Marks: 150**  
**Time: 3 Hours**

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

- |    |   |    |                 |
|----|---|----|-----------------|
| 1. | It has been observed that some of the engineering graduates tend to work as consulting engineers and they are compensated by fees for the services they render. Discuss their responsibilities related to Contingency Fees and Safety and Client Needs. | 25 | CO <sub>3</sub> |
| 2. | Discuss the following in light of the notion of Shared Responsibility and Control of technology:  |    | CO <sub>3</sub> |
|    | a) Einstein regretting his initial support for the nuclear arsenal.   | 10 |                 |
|    | b) Creation of the tomato harvester that has negative impact on the small farmers and the nature of the tomato.   | 15 |                 |
| 3. | a) Why do you think that engineers should not depend on the minimal standard introduced by the law?   | 15 | CO <sub>1</sub> |
|    | b) Analyze as to what should be the appropriate stance of the law regarding the engineering research and innovation.  | 10 | CO <sub>2</sub> |
| 4. | a) Explain the pros and cons of the industrial standard.  | 15 | CO <sub>1</sub> |
|    | b) Analyze with example how the industrial standard could be exploited to create monopoly in the market.  | 10 | CO <sub>2</sub> |
| 5. | a) Analyze the engineers' refusal to give a go to the Challenger for its first flight in 1986 in light of the Right of Conscientious Refusal.   | 10 | CO <sub>3</sub> |
|    | b) Elaborate the widely applicable principles for conflict resolution.  | 15 | CO <sub>2</sub> |
| 6. | a) Discuss with criticism the measures taken by some varsities and corporations to ensure equal opportunity.  | 15 | CO <sub>3</sub> |
|    | b) Explain the substitutes of the job quotation system as it may hamper quality engineering.  | 10 | CO <sub>3</sub> |
| 7. | a) Elaborate the value of the informed consent as an integral part of research in light of the Challenger disaster.   | 10 | CO <sub>2</sub> |
|    | b) Define the dissimilarities between engineering and standard experiment.  | 15 | CO <sub>1</sub> |
| 8. | Write short notes on the following  |    |                 |
|    | a) Quick Fix and Social Engineering   | 8  | CO <sub>3</sub> |
|    | b) Computer and job elimination   | 7  | CO <sub>2</sub> |
|    | c) Weapon Decommissioning   | 10 | CO <sub>3</sub> |