

**HUMAN VALUES AND PROFESSIONAL ETHICS
(HMTS 2001)**

Time Allotted : 3 hrs

Full Marks : 70

Figures out of the right margin indicate full marks.

*Candidates are required to answer Group A and
any 5 (five) from Group B to E, taking at least one from each group.*

Candidates are required to give answer in their own words as far as practicable.

**Group – A
(Multiple Choice Type Questions)**

1. Choose the correct alternative for the following: **10 × 1 = 10**
- (i) Pollutants that persist for a long time in nature are _____
(a) Agents (b) Non-degradable pollutants
(c) Waste matter (d) Bio-degradable pollutants.
- (ii) The concept of 'Categorical Imperative' is related to _____
(a) George Mead (b) Immanuel Kant
(c) Daniel Bell (d) Edwin Mansfield
- (iii) Which of the following is referred to as 'Green House' gas?
(a) Nitrous oxide (b) Formaldehyde
(c) Chlorine (d) Iodine.
- (iv) Use of coal in power plant pollutes the environment because of the release of _____ gas.
(a) nitrogen dioxide (b) sulphur dioxide
(c) hydrogen (d) photochemical smog
- (v) Which of the following is not a source of renewable energy?
(a) Fossil fuel (b) Wind (c) Sun rays (d) Sea waves.
- (vi) Kohlberg was responsible for
(a) formulating the theory of justice
(b) improving the theory of Carol Gilligan
(c) developing the theory of Moral Development
(d) developing the concept of Justice.
- (vii) The theory of 'Looking-Glass Self Image' was propounded by
(a) George Mead (b) Immanuel Kant
(c) Maslow (d) Jeremy Bentham.

- (viii) The quest to maximize profitability should be constrained by
(a) ethical obligations (b) stakeholders
(c) lack of social responsibility (d) unethical obligations.
- (ix) Maslow's Hierarchy of needs includes _____
(a) professional needs (b) self-actualization needs
(c) travel needs (d) convincing needs.
- (x) Which of the following is an example of a value?
(a) Justice (b) Happiness
(c) Security (d) Esteem.

Group – B

2. Write short notes on any two of the following:
(i) Organizational Values (ii) Types of values
(iii) Integrated Personality (iv) Meaning of Good life. **(6 + 6) = 12**
3. (a) Explain the importance of values in our life. Provide relevant examples.
(b) Explain Maslow's Hierarchy of needs. **6 + 6 = 12**

Group – C

4. (a) Explain the difference between Consequential and Non-consequential Ethics.
(b) As an Engineer discuss three Professional Code of Ethics that you should follow at your workplace. **6 + 6 = 12**
5. The ride-hailing giant Uber has been accused by the Portland City Hall transport officials' investigation team of using a software "Greyball" to evade the Portland regulators. The New York Times has reported that when Uber operated illegally in Portland (2014) it used the software "Greyball" to evade a city crackdown. The app blocked suspected city inspectors, then filled the screens of inspectors' smartphones with fake rides while Uber drivers escaped undetected. The city entered into contracts with Uber in 2015. But the city officials launched an investigation this week, demanding to know if use of the software continued even after the city entered into contracts with Uber. They also wanted to know who it was used to evade: inspectors or unwanted customers.

In the context of this investigation Uber's chief security officer, Joe Sullivan issued a statement accepting the use of the software. According to him this technology is used to hide the standard city app view for individual riders, enabling Uber to

show that same rider a different version. It's been used for many purposes, for example: the testing of new features by employees; marketing promotions; fraud prevention; to protect Uber's partners from physical harm; and to deter riders using the app in violation of the company's terms of service. Mr. Sullivan also acknowledged that a review process regarding the use of the software is in progress and that they are expressly prohibiting its use to target action by local regulators.

Answer the following question:

Assuming that Uber used this software to help its drivers to avoid detection and operate illegally in Portland analyse the ethical violations of the company and also the ethical violations on the part of the drivers who were actually partners of the organisation.

12

Group - D

6. (a) Write a short essay on the impact of industrialization on our environment.
(b) What are the two types of technology transfer? Explain with the help of suitable examples.

6 + 6 = 12

7. 'Energy Crisis' is a much used phrase used in the global context. Explain briefly the meaning of this phrase. Provide at least two examples of communities/countries where programmes have been implemented to mitigate this crisis.

(4 + 8) = 12

Group - E

8. Explain Ecological ethics. Mention with example an application of Eco-friendly Technology in your respective field of engineering.

12

9. Compare and contrast the principles of sustainable model of development with the developmental model generally followed in our country. Provide relevant examples of any industry to substantiate your answer.

12