

**HUMAN VALUES & 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) The phenomenal change of Post-Industrial society penned in the book 'The Coming of Post-Industrial Society' is by \_\_\_\_\_.
- (a) John Diebold (b) Henry Ford  
(c) Peter Drucker (d) George Ritzer
- (ii) The concept of *Trusteeship* in Corporate Social Responsibility (CSR) is borrowed from \_\_\_\_\_.
- (a) M. K. Gandhi (b) J.R.D. Tata  
(c) Azim Premji (d) Peter Drucker
- (iii) Find the correct pair of these historical happenings and select from the given options
- |                               |           |
|-------------------------------|-----------|
| A) Small is Beautiful         | i) 1987   |
| B) Limits of Growth           | ii) 1979  |
| C) Our Common Future          | iii) 1973 |
| D) II <sup>nd</sup> Oil Shock | iv) 1972  |
- (a) Ai, Biii, Cii, Div (b) Aii, Bi, Civ, Diii  
(c) Aiii, Biv, Ci, Dii (d) Aiv, Bii, Ciii, Di
- (iv) Satyendra Dubey, S. Manjunath, Edward Snowden, Julian Assange are famous \_\_\_\_\_.
- (a) Journalist (b) Engineers and Innovators  
(c) Philanthropist (d) Whistleblowers
- (v) Which among the following is ethical as per standard Professional Code of Ethics?
- (a) Nepotism  
(b) Biased performance appraisal  
(c) Certifying sub-standard product  
(d) Not charging fee for voluntary work

## B.TECH/BT/CE/CHE/EE/ME/4<sup>TH</sup> SEM/HMTS 2001(BACKLOG)/2021

- (vi) The term sustainability development refers to
- (a) Growth
  - (b) Growth along with material well-being
  - (c) Growth by using our resources in a responsible manner
  - (d) Growth and survival for the fittest.
- (vii) Among the three stages of development of 'Self' by Mead, in which stage does the child relates attitudes with behaviour to understand desirable disposition.
- (a) Imitation
  - (b) Game
  - (c) Play
  - (d) Rule
- (viii) According to Limits of Growth report, the year of ecological and economical catastrophe is presumed to be\_\_\_\_\_.
- (a) 2050
  - (b) 2055
  - (c) 2035
  - (d) 2040
- (ix) The conscious, aware part of the self in Freud's terminology is called \_\_\_\_\_.
- (a) Ego
  - (b) Id
  - (c) Superego
  - (d) Conscience
- (x) Categorical Imperative is a concept propounded by\_\_\_\_\_ and related to \_\_\_\_\_ theory.
- (a) Freud, Libertarianism
  - (b) Kant, Consequentialism
  - (c) Kant, Non-consequentialism
  - (d) Freud, Utilitarianism

### Group - B

2. How does human needs build our value system? Explain with respect to Maslow's Theory of Need-Priority.

12

3. Case Study: Deadly Pool-cars

Journey to school and back home is a daily affair for most kids in city and suburbs. Does ensuring safety of the child commuting to school only a parents' concern?

From accelerating speed at perilous levels, reckless driving, physical abuse, kidnapping, sub-standard maintenance, to inexperienced drivers ferrying beyond safer capacity---charging heavily for the service, the pool cars with their pick-and-drop facility have turned nightmarish for both parents and their school kids.

The frequencies of these incidents are claiming innocent lives every now and then. Lack of proper regulations and unawareness ranging from negligence to lacking conscious efforts among pool-car drivers, concerned safety authorities, parents and schools, ultimately culminate inviting harm to a young individual.

Answer the following with reference to the above case study:

- (i) Which level of value-crisis do you correlate with the above case and why?

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- (ii) If you are given the authority to frame regulations to reduce above mentioned occurrences in the case, what would they be? Provide only two regulations.

**(6 + 6) = 12**

### **Group – C**

4. Describe the risks associated with being a Whistleblower and the ethical obligation employees and individuals must consider when confronted with an obvious ethical violation on the job.

**12**

5. Case Study: Synthetic Biology

Synthetic biology is a futuristic field of science that has raised the risk of new generation of bio-weapons. Advances in the area mean that scientists now have the capability to recreate dangerous viruses from scratch, make harmful bacteria more deadly, and modify microbes that churns out lethal toxins once they enter the body.

Senior scientist (MIT's Synthetic Biology Center, Massachusetts, in 2018), confirmed how the field empowers researchers with precision tools to manipulate living organisms.

Around 2002, Eckard Wimmer (Geneticist, Stony Brook Univ.) recreated poliovirus in a test tube. Univ. of Alberta (2018) built the infectious horse pox virus, a relative of smallpox. Today, the genetic code of almost any mammalian virus can be found online and synthesized with the help of relevant expertise.

Question.

- (i) On which parameters of the standard Code of Professional Ethics will you justify a professional's conscious involvement in researching on bio-weapons, being aware of its potential threat? Explain your viewpoint.
- (ii) The above case study raises the broader issue of ethics and morality while manipulating nature in the guise of research. What are your views on this trend which is quite popular among the scientific community?

**(6 + 6) = 12**

### **Group – D**

6. Imagine yourself as a chief supervisor in a manufacturing unit where a sudden short-circuit caused outbreak of fire. Suggest steps to ensure safe evacuation in the given situation.

**12**

7. Explain the basic concept of Technology Transfer. Mention two types of Tech transfer. Provide an example of Tech Transfer.

**12**

**Group - E**

8. Recycling and reusing may reduce pollution. Correlate the concept of Appropriate Technology to ideate on the above statement.

**12**

9. What is Sustainable Development? List and explain the challenges and ways to implement sustainable development in the Indian context.

**12**

<b>Department &amp; Section</b>	<b>Submission Link</b>
Google Classroom joining link	<a href="https://classroom.google.com/c/Mzc1OTE1NDE2ODk1?cjc=beh76qw">https://classroom.google.com/c/Mzc1OTE1NDE2ODk1?cjc=beh76qw</a>
Answer script submission link	<a href="https://classroom.google.com/c/Mzc1OTE1NDE2ODk1/a/Mzc1OTE1NjA1OTYy/details">https://classroom.google.com/c/Mzc1OTE1NDE2ODk1/a/Mzc1OTE1NjA1OTYy/details</a>