

**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) Mr. Akash Agarwal is a civil Engineer and the bridge designed by him starts showing flaws after two years of operation. Mr. Agarwal's action is a violation of
(a) Individual values (b) Professional Ethics
(c) Both Professional Ethics and Individual values (d) Value crisis.
- (ii) When you are recognized & appreciated for your work, which need of Maslow's Need-Priority Theory is furnished?
(a) Social Needs (b) Ego & Esteem Needs
(c) Cognitive Needs (d) Self-Actualization.
- (iii) Organizational Values are best realized when they are extended towards _____.
(a) only profit (b) only quality products
(c) employees and society (d) only environmental causes
- (iv) The different Stages of Industrialization had remarkable inventions highlighted in the epoch. Select the right order according to the Stages these inventions ruled.
(a) Electricity, computers, steam, 3D printers
(b) Steam, electricity, computers, 3D printers
(c) Steam, computers, electricity, 3D printers
(d) Electricity, computers, 3D printers, steam.
- (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.
- (vi) The conscious, aware part of the self in Freud's terminology is called _____.
(a) Ego (b) Id (c) Superego (d) Conscience
- (vii) Sustainable development can be thought of in terms of three spheres i.e.
(a) environment, economy and society (b) environment, economy and equity
(c) environment, ecology and society (d) environment, economy and ecology.

- (viii) Automation is
(a) Machines working automatically
(b) Machines working on their own
(c) Use of controlled systems to control industrial machinery & processes
(d) Machines doing the work of human beings.
- (ix) What is the main reason of environmental destruction?
(a) Due to the consumption of the poor
(b) Due to the consumption of the rich
(c) Due to no consumption
(d) Due to consumption in certain interval of times.
- (x) 1) Social value systems are dynamic.
2) Language is part of culture.
(a) Both the statements are true (b) Both the statements are false
(c) only 1 is true (d) only 2 is true.

Group - B

2. (a) Explain the concept of justice as a social value and also state how the rule of law may/can help in implementing justice in a society.
(b) Write a short note on any one of the following:
(i) Value Spectrum (ii) Aesthetic Values (iii) Cultural level value crisis.
(4 + 4) + 4 = 12

3. Make an argument by weighing the competing values in this case.
A fresh engineering graduate likes both her new job and salary in the prestigious chemical industry. However, after few months, she accidentally discovers that highly toxic waste is being secretly discharged by the industry into a river nearby. This is causing health problems to the villagers downstream who depend on the river for their water needs. She is upset and mentions her concern to her colleagues who have been with the company for longer periods. They advise her to keep quiet as anyone who mentions the topic is summarily dismissed. She cannot risk losing her job as she is the sole bread-winner for her family. At first, she thinks that if her seniors are keeping quiet, why she should stick out her neck. But her conscience pricks her to do something to save the river and the people who depend upon it. She thinks you are a wise person and seeks your advice.

Answer the following questions:

- (i) What arguments can you advance to show her that keeping quiet is not morally right?
(ii) What course of action would you advise her to adopt and why?
(6 + 6) = 12

Group - C

4. Write short notes on the following:
(i) Whistle Blowing (ii) Importance of Ethics in work place.
(6 + 6) = 12

5. Corruption is all pervading. As a professional engineer explain, how your Ethics of Responsibility would help you face the challenges of workplace corruption. Use suitable examples.

(7 + 5) = 12

Group - D

6. (a) State contributions of Science, Engineering and Technology in the major growing stages of Industrialization from 19th century to the present.
(b) Write a short note on any one of the following:
(i) Engineers as responsible experimenter
(ii) Eco-friendly Technology
(iii) Man-machine Interaction.

7 + 5 = 12

7. (a) Explain the basic concept of Technology Transfer and its major types with examples.
(b) Decent work and Economic growth is a sustainable goal. Presume yourself to be in a leadership role in an organization and suggest at least three actions that can be implemented to make your workplace decent for your employee.

6 + 6 = 12

Group - E

8. Design a Sustainable strategy to be implemented in Kolkata, West Bengal. The time frame is two years within which your suggestive steps should alleviate three specific problems (depleting ground water levels, pollution, hygiene etc.), through sustainable methodologies.

4 + 4 + 4 = 12

9. (a) The present crisis of global warming is the result of the rapid and extensive industrialization across the world. Do you agree with the above statement? Provide reasons for your answer.
(b) Explain the term Ecological Ethics with the help of an example.

8 + 4 = 12

